

THIRTY-SEVENTH ANNUAL REPORT
OF THE
RECEIPTS AND EXPENDITURES
OF THE
CITY OF MANCHESTER
FOR THE
Fiscal Year Ending December 31, 1882,
TOGETHER WITH
OTHER ANNUAL REPORTS AND PAPERS RELATING
TO THE AFFAIRS OF THE CITY.



MANCHESTER, N. H.:
JOHN B. CLARKE, PRINTER.
1883.

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CITY OF MANCHESTER.

IN BOARD OF COMMON COUNCIL.

AN ORDER to print the Thirty-Seventh Annual Report of the Receipts and Expenditures of the City of Manchester.

ORDERED, If the Board of Mayor and Aldermen concur, that the Joint Standing Committee on Finance be, and they hereby are, authorized to procure, for the use of the inhabitants of said city, the printing of the Thirty-Seventh Annual Report of the Receipts and Expenditures of the City of Manchester, including the Reports of the Joint Standing Committee on Finance, the School Board and Superintendent of Schools, Superintendent of Water-Works, Water Commissioners, Engineer of Fire Department, City Marshal, Overseers of the Poor, Trustees, Librarian, and Treasurer of City Library, Committee on Cemeteries, Joint Standing Committee on City Farm, City Physician, City Solicitor, and City Engineer, the expense thereof to be charged to the Appropriation for Printing and Stationery.

IN BOARD OF COMMON COUNCIL. December 29, 1882.

Passed.

WM. J. HOYT, *President*.

IN BOARD OF MAYOR AND ALDERMEN. December 29, 1882.

Passed in concurrence.

H. B. PUTNAM, *Mayor*.

MAYOR PUTNAM'S INAUGURAL ADDRESS.

Gentlemen of the City Councils:—

Having again been called, by the suffrages of my fellow-citizens, to fill the chief executive office of the city, I feel the responsibilities that it imposes on me. I am well aware that the burden is not light, and that the people will hold both you and me accountable for the trust committed to our care. We are, for the time being, the servants of the people, elected to govern and administer the affairs of this city according to oaths taken and with what wisdom and knowledge have been given to us. For my part, whatever ability I possess shall be used with an honest purpose to be governed by the principle of justice towards all without fear or favor, and I shall endeavor to advance the best interests of the city. Relying on you, gentlemen, for counsel, I enter upon its duties without any misgivings for the future.

City affairs should be managed as careful business men manage their own. We are but agents, and shall be held to a strict account for the well-being of the city during our term of office. The policy that should govern us should be a liberal one towards all those enterprises that the city requires in order to make it a desirable place in which to live, to keep up with the progressive spirit of the age, and give security to all persons living within the law. Yet one thing should be kept constantly in view, that no extravagance enter into our deliberations; for, be it remembered,

the money we spend is not our own. In regard to the appropriations I would say, let them be sufficiently large to cover emergencies which we cannot now foresee. Of late our appropriations have been less than in former years; last year they were smaller than ten years ago. It is a short-sighted policy to curtail appropriations when our city is fast growing in wealth and population, and constantly extending over a larger area.

FINANCE.

The finances are in a very satisfactory condition. When we consider that the assessed valuation is \$20,000,000, and the debt \$1,000,000, two-thirds of which are invested in water bonds which are fast becoming self-supporting, we have but little cause for alarm. In my last address I recommended the establishment of a sinking fund for the liquidation of the water bonds when they become due, but it failed to become a law. Had such a measure been adopted when the bonds were issued, and a small amount of money laid by every year, the first \$100,000 could have been taken up at maturity and none have suffered much thereby. During the highly prosperous period that has passed, it would have been a wise policy to have made provision for years less fortunate, which in all probability will come.

A detailed account of the city finances will be found in the treasurer's report.

POLICE.

During the past two years, our city, considering the number of its inhabitants, has been quite free from noise and tumult, and few cases of breaking and entering have occurred. The officers have shown commendable zeal in arresting those who have transgressed the law and bringing

them to the bar of justice. There cannot be too much discrimination used in selecting men to compose the police. They should be temperate men, men that will command respect, and are not addicted to the vices which they are bound by their oaths to suppress. I am well aware that the policeman's life is one of danger, and one in which he has to decide quickly in emergencies that may arise. Perhaps he sometimes errs in judgment ; but he is human, and I shall always give him my support until I am thoroughly convinced that he is in the wrong. There is one custom, in vogue for many years, that I think should not be tolerated, viz., officers' receiving presents from persons doing business on their patrol. They are paid by the city for protecting the property of all those who are doing a legitimate business, and when they receive a present from those who are not, they place themselves under obligations which might in some instances prevent them from performing their duty as fearlessly as they otherwise would.

Our city is fast increasing in population and its area constantly extending, yet we have no more policemen than we had ten years ago when the population and wealth were not two-thirds what they are to-day ; and for better protection of property and security against fire I would recommend that the police force be increased.

Here I would say a word to the police department. Be faithful to the trusts confided to you ; realize the importance of your position and the responsibility that rests upon you ; respect yourselves : if you do not, others will not respect you ; be vigilant in the performance of your official duties, and be courteous to those who need your assistance and advice. By observing these rules and paying strict attention to the business of your office, you will win for yourselves the respect of an intelligent community, and, perchance, longer tenure of official life.

FIRE DEPARTMENT.

During the past two years our city has been free from any serious conflagrations. The whole number of fires and alarms for 1882 was twenty-nine ; amount of loss, \$15,440 ; amount of insurance, \$10,715 ; total amount of damage, \$4,725.

This is a very remarkable record for a place of the size of Manchester. I do not propose to speak at length of the excellence of our fire department, for that is patent to every one. It is a department in which every citizen feels a just pride ; and as long as our city deals justly by it, and the same high standard of character is required to gain a membership, so long will it continue to be what it is.

During the past year a hose-house has been located on Park street, and is now ready for occupancy, being first-class in all its appointments. In the near future another will have to be located in the north part of the city. Last year a lot was purchased on Sagamore street, containing 10,000 feet of land, which would be a very desirable location on which to build, as that section is already thickly inhabited, and is far removed from the central department on Vine street. Eight years ago the appropriation for the fire department was larger than last year ; and it looks as though too much money was appropriated then or not enough now. This is a department in which a parsimonious policy cannot be indulged, neither is it required by the city. The appropriations should not be so small that property-owners need feel insecure because of a fire department insufficient for emergencies. While speaking on this subject, there is one thing to which I would call your attention. Every year there is held, in some of the large cities of this country, a convention of fire engineers and representatives of fire insurance companies, for the purpose of

discussing matters connected with this service, from which discussions much valuable information is obtained. I think it would be well to have our city represented on these occasions.

CITY FARM.

During the last administration many improvements were made in the city-farm buildings. The most important was a large addition to the farm-house for the better accommodation of the unfortunate poor who are obliged to seek an asylum at this institution. A steam boiler has been put in, and the whole establishment heated therewith, which adds much to the comfort of its occupants and greatly reduces the risk of fire. Provision has been made for the care of insane patients that are city charges, who have formerly been supported at the asylum at Concord. Cases of mild insanity can be treated here as well as to send them elsewhere at a large expense. I have not examined the superintendent's report for the past year, but presume it to be the same as those of previous ones. I am convinced that with good management the expenses at this institution can be reduced so that it would not cost the city \$2.75 per week for every pauper and criminal sent there. As far as dollars and cents are concerned, it would be cheaper to board the paupers at a good boarding-house, and send the prisoners to the house of correction at the jail, with board at \$2.50 per week. But there is no need of that arrangement; for with a farm as good as that, in close proximity to the city, where the labor is chiefly done by criminals, enriched as it is by all the products of the city stables, it can be made nearly self-supporting. To do this requires a superintendent who has ability, combined with energy of character and good business talent, and whose whole time should be devoted to the work. Persons con-

nected with institutions like this, where the poor and the criminal alike are sent, should possess feelings of humanity for the unfortunate, and firmness tempered with justice for the criminal class. Many improvements have been made on the farm in past years in bringing waste land to cultivation ; but much remains yet to be done in order to bring it up to that high standard that is required.

It would be well that the wood be cut off on the west side of the road, and the land be put into tillage. This, I think, would be far preferable to having it remain the unsightly place it now is, covered with underbrush and stagnant pools.

SEWERS.

This city is admirably situated for drainage, and there is no reason why our system of sewerage cannot be made perfect, and so constructed that it may be conducive to the health and comfort of the people.

One step was taken in the right direction last year when the large sewer was built down Bridge street, it having a direct outlet into the river, taking all the drainage of the north part of the city. Complaints are frequently made of the gases arising from our cess-pools. How this is to be obviated remains to be seen. Various kinds of traps have been used, but none have yet proved successful ; and the only way yet devised to overcome this nuisance is to erect stand-pipes, connected with the sewers, and carried above the buildings, through which the gases may escape. In many sections, sewers that were built in the early days of city-made pipe have become entirely worthless by having been broken and filled up. Others were laid near the top of the ground, for surface drainage only. These must be relaid with pipe of better material, and to greater depth.

Massabesic water having been generally introduced, the

call for new sewers is increasing, and as a sanitary measure it is very important that they should be built in all locations wherever required.

TEMPERANCE.

Upon this subject I shall be brief, though it is one that concerns all those who have the well-being of society at heart, and who take an interest in whatever tends to elevate the human race. Intemperance has existed from the earliest period of which we have any record down to the present time. This is one of the evils which has not been eradicated as the world has grown more enlightened. How it is to be stopped is a problem not yet solved. Legislative enactments have been powerless for its suppression; and the only way that I can see to stop the evil is to make the practice of drinking as odious as possible, and to place necessary restraints upon the traffic. We do not think the sale of liquors can be stopped entirely, any more than other crimes; but such laws and restrictions should be placed upon it that it can be confined within reasonable bounds.

It is a very easy thing for professed temperance people to find fault with the city government for failing to shut up shops where liquor is sold. Last year an effort was made to break up some of the worst dens, and to keep all others within proper restrictions, and with good results; yet what aid did the movement receive from those who ought to have given it their moral support? Not a church in the city raised its voice in its behalf, or gave any encouragement to the officers of the law. What was the consequence of this action on the part of the city? The city marshal — the best Manchester ever had — was dropped because of the faithful discharge of his duty, and the people apparently acquiesced.

HOSPITAL.

I doubt if there is a city in New England as populous as Manchester that has not a hospital supported by its municipality. Here there are no provisions made whereby the indigent sick can be cared for and receive medical treatment at the expense of the public. In the absence of such an institution, the Amoskeag Manufacturing Company generously gave, a few years since, the use of a building belonging to said corporation, for hospital purposes. There were found enough kind and noble-hearted ladies to take charge of this enterprise, and under whose judicious management it has remained up to the present time. Thus was laid the foundation of what is known as the Women's Aid Hospital, which is now a corporate body. From a small beginning it has grown to be one of our most useful and permanent institutions. It has been supported by funds given by the various corporations, and from the purses of some of our liberal citizens. I have had occasion, from personal observation, to know that it has been the means of doing a great amount of good by relieving the distress of those who have received its benefits, and who otherwise must have suffered from want of care. The city for a few years past has donated annually the sum of a few hundred dollars towards its support. This gratuity I would recommend be continued during the present administration, and increased if in your judgment it be advisable.

LIGHTING STREETS.

Your attention will be called to the subject of lighting our streets, and it deserves serious consideration. That our city is now very imperfectly lighted, none will deny. Whether the electric light has yet been brought to that state of perfection that it can be used for general purposes

on the score of economy, remains to be demonstrated. That it is the coming light, there can be but little doubt; and can it be shown our citizens that the expense of lighting our streets with electricity would be but a few thousand dollars a year in excess of what it is now, the system will undoubtedly be adopted. I would advise that the street-lamps be kept burning until one or two o'clock A. M. I make this recommendation for two reasons: first, as a safe-guard against accidents; secondly, as a means of security against house-breaking, and for a more perfect police protection. I have had an interview with the superintendent of the Gas Company, to ascertain if a reduction cannot be made in the price of gas if more is used, and with very favorable results.

STREETS.

This department is one of the most important of any in the city on account of the large amount of money appropriated, much of which can be squandered without strict attention is given to its judicious expenditure by the superintendent. I would recommend the passage of an ordinance prohibiting the superintendent of streets from employing his own teams on the streets, or his engaging in any other business that would occupy his time, which should be devoted to the interests of the city.

As a general thing our streets are in good condition, considering the amount of money expended. There was not so much money appropriated for the street department last year as in former years. The streets which have been macadamized and paved have worn well and given good satisfaction. I would recommend that the usual amount of money be spent for the same purpose the coming year.

Here I will say a word respecting our sidewalks. It is a fact patent to every one, that the walks on some of our

main thoroughfares are in a very bad condition. The question is, how shall they be improved? The abutters say they are not obliged to keep them in order, for the walks are a part of the street, and they pay taxes to keep them in repair. On the other hand, the city contends that the abutters put them down for their own convenience and those who occupy their buildings. During the last year heavy claims for damages because of injuries received on account of defects in sidewalks have been presented to the city for payment. If these actions are maintained and the city is held responsible, the quicker the evil is remedied the better for all concerned. The roads in the suburban districts are in better condition than for years. Yet they are not what they should be, or what the public require.

It should be borne in mind that in some districts good material for grade purposes cannot be obtained. If there is one thing which the general public require more than another, it is good roads; and money spent in keeping them in good repair is one of the items about which taxpayers seldom complain.

MISCELLANEOUS.

During the past administration an annex has been built to the city-library building, of the same height and corresponding architecture, which now gives ample room, and will meet the wants of the people for many years to come. The library now contains 26,025 volumes; books that have been selected with care for the reading public. This institution deserves the fostering care of the city, and money judiciously spent for its enlargement will have the approval of our citizens.

Last year the city engineer was instructed to establish

grades on many of the old streets and on all of the new. This work has been nearly completed ; and, had this system been adopted in the earlier years of our city, much trouble and litigation would have been prevented. I would recommend that this work be continued.

I would speak at length of the board of health, but as I did so in my last address, shall only briefly refer to it now. I would recommend that a board be chosen of three persons, one of whom should be clerk, invested with full powers to act in all cases, whose pay should be sufficiently large to enable him to devote the necessary time to his office ; the other two members to be advisers, to meet at such times as required and be paid for time actually spent. Not much can be expected of the board as now constituted, for the reason that the small pittance given them does not pay for the time spent, to say nothing of the ill will acquired if they faithfully perform their duties.

Not having given that time required to our public schools to speak understandingly of them in detail, I will only say that they continue to keep up the high standard which they have maintained in past years. The superintendent will lay before you in his report the general information required.

CONCLUSION.

Thus briefly have I indicated some of the most important measures that will demand your attention. This I have done in as concise a manner as possible. I have a right to expect your hearty co-operation in every effort of mine to successfully carry out each measure that shall be for the good of the city. With your support I shall go forward with courage, determined that my influence I may have, shall be freely given.

Let no narrow policy govern our actions, but ever bear in mind our official trust and accountability. Let there be harmony of action in the several branches of our government, and each vie with the other in making this administration a successful one.

CITY GOVERNMENT.

MANCHESTER
CITY GOVERNMENT,
1882.

MAYOR.

HON. HORACE B. PUTNAM.

CITY CLERK.

NATHAN P. KIDDER.

PRESIDENT OF COMMON COUNCIL.

WILLIAM J. HOYT.

CLERK OF COMMON COUNCIL.

JAMES A. FRACKER.

CITY TREASURER.

SYLVANUS B. PUTNAM.

COLLECTOR OF TAXES.

GEORGE E. MORRILL.

CITY SOLICITOR.

WILLIAM R. PATTEN.

CITY MESSENGER.

JOHN A. BARKER.

CITY ENGINEER.

GEORGE H. ALLEN.

CITY PHYSICIAN.

JAMES M. COLLITY.

ALDERMEN.

Ward 1. — Elijah Chandler.

Ward 2. — George H. Stearns.

Ward 3. — Aretas Blood.

Ward 4. — John H. Maynard.

Ward 5. — Thomas F. Glancy.

Ward 6. — John Hosley.

Ward 7. — Timothy W. Challis.

Ward 8. — Andrew C. Wallace.

MEMBERS OF COMMON COUNCIL.

WARD 1.

Perkins C. Lane.
William A. Perry.
Charles F. Morrill.

WARD 2.

Darwin M. Poore.
John F. Clough.
William J. Hoyt.

WARD 3.

James Sutcliffe.
Samuel Thompson.
George Whitford.

WARD 4.

Samuel F. Curtis.
Robert Heath.
Orrin D. Carpenter.

WARD 5.

John F. Conway.
Martin J. Foley.
Michael McDonough.

WARD 6.

Thomas Johnson.
George H. Dudley.
James S. Bacheler.

WARD 7.

Samuel Lunt.
George B. Smith.
David Farmer.

WARD 8.

James F. Baldwin.
Frank Schnauder.
Henry C. Ranno.

JOINT STANDING COMMITTEES.

On Finance. — The Mayor, and Alderman Blood ; Messrs. Morrill, Curtis, and Johnson.

On Accounts. — Aldermen Hosley and Challis ; Messrs. Smith, Poore, and Morrill.

On Lands and Buildings. — Aldermen Challis and Maynard ; Messrs. Heath, Carpenter, and Dudley.

On Public Instruction. — Aldermen Blood and Chandler ; Messrs. Curtis, Baldwin, and Sutcliffe.

On City Farm. — Aldermen Maynard and Hosley ; Messrs. Perry, Lunt, and Bacheler.

On Sewers and Drains. — Aldermen Wallace and Stearns ; Messrs. Carpenter, Clough, and Perry.

On Streets. — Aldermen Stearns and Wallace ; Messrs. Perry, Clough, and Carpenter.

On Claims. — Aldermen Challis and Maynard ; Messrs. Sutcliffe, Johnson, and Poore.

On Commons and Cemeteries. — Aldermen Challis and Hosley ; Messrs. Thompson, Smith, and Ranno.

On Fire Department. — Aldermen Wallace and Chandler ; Messrs. Bacheler, Lane, and Heath.

On House of Correction. — Aldermen Glancy and Stearns ; Messrs. Lunt, Foley, and Thompson.

On Lighting Streets. — Aldermen Stearns and Glancy ; Messrs. Whitford, Farmer, and Schnauder.

On Water-Works. — Aldermen Blood and Maynard ; Messrs. Whitford, Baldwin, and Conway.

On Military Affairs. — Aldermen Challis and Chandler ; Messrs. Lane, Dudley, and McDonough.

STANDING COMMITTEES IN BOARD OF MAYOR AND ALDERMEN.

On Enrollment. — Aldermen Blood and Stearns.

On Bills on Second Reading. — Aldermen Hosley and Chandler.

On Licenses. — Aldermen Challis and Maynard.

On Marshal's Accounts. — Aldermen Wallace and Chandler.

On Setting Trees. — Aldermen Stearns and Challis.

On Market. — Aldermen Glancy and Wallace.

On Special Police. — Aldermen Challis, Hosley, and Stearns.

STANDING COMMITTEES IN BOARD OF COMMON COUNCIL.

On Election Returns. — Messrs. Thompson, Whitford, and Lunt.

On Bills on Second Reading. — Messrs. Clough, Baldwin, and Lane.

On Enrollment. — Messrs. Smith, Ranno, and Morrill.

POLICE DEPARTMENT.

Judge of Police Court.

Nathan P. Hunt.

Associate Justice of Police Court.

Isaac L. Heath.

Clerk.

John C. Bickford.

City Marshal.

Alfred D. Stark.

Assistant Marshal.

Horatio W. Longa.

Captain of the Night Watch.

Melvin J. Jenkins.

Day Police.

John C. Colburn.

Randall W. Bean.

Night Watchmen.

John F. Cassidy.	James F. Dunn.
James Bucklin.	Ira P. Fellows.
Thomas Frain.	Philip Reischer.
William H. B. Newhall.	Francis Bourrassau.
Michael Marr.	Gideon Rochette.
Hiram Stearns.	Charles H. Reed.
Zadock B. Wright.	Lafayette Tebbetts.
Edgar Farrar	Eben Carr.
Jeremiah Murphy.	Charles S. Brown.

Constables.

William A. Carpenter.	Joseph B. Maynard.
George W. Hamlin.	Isaac F. Sawyer.
Charles R. Noyes.	

SCHOOL COMMITTEE.

Hon. Horace B. Putnam, *ex-officio* *Chairman*.
 Marshall P. Hall, *Clerk*.

WARD 1.

Charles F. Everett.
 Frank T. E. Richardson.

WARD 2.

Benjamin C. Dean.
 Gerherdus L. Demarest.

WARD 3.

Daniel Clark.
 William A. Webster.

WARD 4.

Walter M. Parker.
 John T. Fanning.

WARD 5.

Denis F. O'Connor.
 Charles A. O'Connor.

WARD 6.

Abial C. Flanders.
 Brackett B. Weeks.

WARD 7.

Marshall P. Hall.
Ezra Huntington.

WARD 8.

Louis E. Phelps.
Douglas Mitchell.

William J. Hoyt, *ex officio*.

SUPERINTENDENT OF PUBLIC INSTRUCTION.

William E. Buck.

OVERSEERS OF THE POOR.

Hon. H. B. Putnam, *ex-officio* *Chairman*.

William H. Maxwell, *Clerk*.

William H. Maxwell.

George F. Sheehan.

George H. Colby.

Robert Hall.

C. G. B. Ryder.

Elbridge G. Woodman.

Horace Gordon.

Israel B. Farnum.

WATER COMMISSIONERS.

Hon. Horace B. Putnam, *ex officio*.

James A. Weston, *Clerk*.

Alpheus Gay.

Edwin H. Hobbs.

Eben T. James.

Andrew C. Wallace.

James A. Weston.

William P. Newell.

ASSESSORS.

Charles S. Fisher, *Chairman*.

David O. Fernald, *Clerk*.

Charles H. Brown.

John Ryan.

Joseph H. Haynes.
David O. Furnald.
George W. Weeks.

Ira W. Moore.
Henry W. Powell.
Charles S. Fisher.

INSPECTORS OF CHECK-LISTS.

Joseph H. Haynes, *Chairman*.
Harrison D. Lord, *Clerk*.

Hiram Forsaith.
Joseph H. Haynes.
David O. Furnald.
Harrison D. Lord.

John J. Flynn.
Isaac Whittemore.
David Farmer.
Charles S. Fisher.

TRUSTEES OF THE CITY LIBRARY.

Nathan P. Hunt.
William P. Newell.
Daniel Clark.

Isaac W. Smith.
Moody Currier.
Lucien B. Clough.

Ezekiel A. Straw.

Horace B. Putnam, *ex officio*.
William J. Hoyt, *ex officio*.

LIBRARIAN.

Mrs. M. J. Buncher.

BOARD OF HEALTH.

Alfred D. Stark.

Lyman H. Lamprey.

Patrick A. Devine.

FIRE DEPARTMENT.

Thomas W. Lane, *Chief Engineer.*

Sam C. Lowell, *Clerk.*

Assistant Engineers.

Andrew C. Wallace.

Sam C. Lowell.

Benjamin C. Kendall.

Orin E. Kimball.

CITY AUDITOR AND REGISTRAR.

Nathan P. Kidder.

SUPERINTENDENT OF WATER-WORKS.

Charles K. Walker.

WARD OFFICERS.

Moderators.

Ward 1. — Daniel H. Maxfield.

Ward 2. — George M. True.

Ward 3. — James B. Straw.

Ward 4. — John M. Crawford.

Ward 5. — James Dolan, Jr.

Ward 6. — George Holbrook.

Ward 7. — Timothy W. Challis

Ward 8. — Charles K. Walker.

Ward Clerks.

Ward 1. — Charles H. Butman.

Ward 2. — Louis C. Merrill.

Ward 3. — Alexander H. Olzendam.

Ward 4. — Waldo E. Gilmore.

Ward 5. — Nicholas J. Whalen.

Ward 6. — George E. Glines.

Ward 7. — Frank H. Redfield.

Ward 8. — William McElroy.

Selectmen.

WARD 1.

Jonathan T. Underhill.

Charles E. Ham.

Charles D. Wheeler.

WARD 2.

Horace C. Paige.

John Prince.

George W. Varnum.

WARD 3.

David Thayer.

Simeon R. Stearns.

George H. Knowlton.

WARD 4.

Ralph Pearson.

Sylvanus B. Putnam.

Charles H. Uhlig.

WARD 5.

John B. McTiernan.

James McLaughlin.

John Bryson.

WARD 6.

Edwin N. Baker.

Richard E. Davis.

Clarence M. Edgerly.

WARD 7.

Elbridge G. Woodman.

Samuel Clark.

James Lightbody.

WARD 8.

Herman Rittner.

Charles C. Tinkham.

Hervey Stratton.

REPORT
OF THE
BOARD OF WATER COMMISSIONERS.

REPORT

OF THE

BOARD OF WATER COMMISSIONERS.

To the City Councils of the City of Manchester : —

GENTLEMEN, — In compliance with the ordinance establishing water-works, the Board of Water Commissioners have the honor to present herewith their eleventh annual report, together with the customary report of the superintendent, which furnishes, in detail, an account of the operations of this department during the year ending December 31, 1882.

The total income of the water-works for this period has been sixty-seven thousand six hundred thirty dollars and thirteen cents (\$67,630.13) ; the ordinary current expense of operating and maintaining the works has been eleven thousand five hundred and five dollars and ninety-seven cents (\$11,505.97), leaving, as net receipts, fifty-six thousand one hundred twenty-four dollars and sixteen cents (\$56,124.16). This is an excess of net receipts in 1882 over those of 1881 of five thousand three hundred forty-two dollars and sixty-three cents (\$5,342.63).

As a whole, the water-works are in a very satisfactory condition. Massabesic Lake is furnishing an abundance of pure water, both for power and city supply. The wrought

iron and cement pipes have given less trouble by way of leaks than in any year since their construction. The pumping machinery continues to perform its duty admirably, and the revenue derived is larger than the most sanguine dared predict at their inception. It is now only necessary to keep the works already constructed in good order and repair, increasing their capacity only as fast as demanded by the increased consumption of water, to continue indefinitely the great blessings now enjoyed by our citizens from one of the finest systems of water supply in the country.

Respectfully submitted.

ALPHEUS GAY, *Chairman*,
 H. B. PUTNAM, *Mayor*,
 WM. P. NEWELL,
 A. C. WALLACE,
 E. T. JAMES,
 E. H. HOBBS,
 JAMES A. WESTON, *Clerk*,
Water Commissioners.

January 1, 1883.

SUPERINTENDENT'S REPORT.

To the Water Commissioners of the City of Manchester:—

GENTLEMEN. — As required by an ordinance of the city, I herewith present my annual report for the year 1882.

MASSABESIC LAKE.

Notwithstanding the dry season, there has been an abundance of water in the lake, it being twenty-two inches higher December 31, 1882, than it was in December, 1880, at the time the channel was lowered at the outlet. Having plenty of water the past year, it is fair to assume that there will be a sufficient quantity in the future to run the pumps and supply the city, if it is not wasted.

The wasting of water is a hard matter to control here, as well as in other cities. Many of the takers have the idea that all of the water in the lake is available. They are not aware that five feet is all we have under control, and it takes seven gallons to get one into the reservoir. The citizens of Manchester are supplied with the very best of water, and the rates are as low as in any other city where the water is pumped, and, if they use just what they pay for, and no more, there will never be a water famine.

DAM, CANAL, AND PENSTOCK.

At the dam, each side of the over-fall, there has been coping-stone laid on the bank walls, and an iron fence built; also a new iron railing on the bridge, and at the head of the canal. Total cost, \$818.40.

A portion of the canal bank on the south side, near the head of the penstock, slid into the water. This has been repaired, and the canal banks now are in good condition.

PUMPING STATION.

The pumps are in good running order. The valve-chamber that was repaired last year cracked in another place, and a new one was ordered. The casting was made in Philadelphia, by R. D. Wood & Co., and was set in the place of the old one in the month of April. The work was in charge of Henry Dare, agent of R. D. Wood & Co., and the change was made in six days in a satisfactory manner.

As all machinery is liable to get out of order, it would be well to make some arrangements for another set of pumps. There could be another set attached to the spare wheel, with nearly as much capacity as the two now in use, and could be used in case of accident or when making repairs. While there is no doubt about the supply of water, it would be well to bear in mind that it will always have to be pumped.

RECORD OF PUMPING IN 1882.

MONTHS.	No. hours' work for both pumps.	Average stroke per minute.	Total No. strokes per month	Total gallons pumped in one month.	Daily aver- age gallons pumped.
January	644 h.	16.26	628,552	39,598,776	1,277,380
February	555 "	16.22	540,072	34,024,536	1,215,162
March	557 " 30 m.	15.50	533,878	33,634,314	1,084,978
April	509 " 40 "	16.53	505,561	31,850,363	1,061,678
May	544 " 20 "	16.70	545,186	34,346,718	1,107,960
June	599 " 10 "	16.46	591,688	37,276,344	1,242,544
July	670 "	16.55	665,364	41,917,932	1,352,191
August	817 " 10 "	16.04	786,662	49,559,706	1,598,700
September	649 " 20 "	15.45	602,144	37,935,072	1,264,502
October	578 " 40 "	15.57	542,924	34,204,212	1,103,168
November	722 "	14.79	509,920	32,024,960	1,067,499
December	616 "	15.70	580,412	36,565,956	1,179,547
Totals and average.	7462 h. 50 m.	15.98	7,032,363	442,938,889	1,213,531

SUPPLY AND FORCE MAINS.

The supply and force mains have been kept in repair with as little expense as any previous year.

At the Cemetery brook near the corner of Massabesic and Park streets, the supply main sustains the greatest pressure east of Union street, and is laid under the brook where it would be impossible to repair it in high water. To guard against a break that might happen at this place, 307 feet of cast-iron pipe were laid over the stone culvert and so left that it can be connected with the cement pipe each side of the brook in twenty-four hours.

In order to do this, the grade of the street had to be raised and the culvert lengthened, the expense of which the water-works department paid one half, amounting to \$500; the cost of laying the cast-iron pipe was \$1,200, making the total cost \$1,700.

RESERVOIR.

The wood-work at the gate-house has been painted, and a fence built from the highway to the top of the embankment inclosing the old roadway, that was used to draw up the earth and stone to build the banks.

This gives the public an opportunity to drive from the main road to the top of the reservoir embankment.

DISTRIBUTION PIPE.

The amount of water-pipe laid the past season is 8,872 feet, — a little more than one and a half miles, at an expense of \$8,857.

These extensions have been laid on twenty-two different streets, and in all cases, except when it was necessary to give a better supply to hydrants, the residents have agreed to take water enough so that the receipts would at least be equal to the interest on the cost of laying the pipe.

There were laid on Bridge street, on the west side of the river, 580 feet of eight-inch pipe, making a connection with the Stark-corporation pipe, which was supplied before from the Amoskeag Company's line that runs up River street from Granite. The city furnished the material and made the connection on McGregor street, the Stark corporation doing the rest of the work. This gives both corporations a better supply for their hydrants, and the benefit which the city derives is, that the section north of the brick school-house to Amoskeag will be supplied when repairs are being made on Main street south of this point.

The pipe which crosses the Merrimack on the bed of the river near the weir, a portion of which was laid over a year ago last summer, remains in good condition. There were three leaks in the lead joints of the pipe first laid, which were repaired in low water last summer, so that this line of pipe is now in good order. There have been 282 feet of

twelve-inch cast-iron pipe laid on Elm street from Cole street under the Manchester & Lawrence Railroad track in place of the cement. This was necessary in consequence of making the street wider by the railroad bridge.

PIPES AND FIXTURES LAID IN 1882.

STREETS.	Length in feet laid.					Gates set.					Hydrants.	LOCATION.
	12 in.	10 in.	8 in.	6 in.	4 in.	12 in.	10 in.	8 in.	6 in.	4 in.		
Supply Main.....		4										Blow-off at Belmont street.
Amory.....			435					1				Main to McGregor.
Appleton.....				840							2	Chest. to Union.
Ashland.....		663					1					Amherst to Lowell.
Bay.....				507					1			North to Salmon.
Beauport.....				500								Wayne to Amory.
Bowman.....					373					1		Milford southward.
Bridge.....			580					1				McGregor eastward to Co's P.
Center.....				9							1	Hydrant set.
Concord.....				1560					2		3	Dutton to Belmont.
Derry.....					147							Concord southward.
Granite.....				700							1	Canal to Elm.
Hazel.....					260							Brook southward
Lowell.....	17											Cor. Ashland.
North.....	336			9		1					1	Elm to Bay.
McGregor.....			150									To Amory.
Myrtle.....				208							1	To Russell.
Pearl.....				677							2	Oak to Linden.
River.....			504	12					1			12-in. main pipe northward.
Sagamore.....				203								Pine eastward.
Spruce.....				120								Lincoln eastw'd.
Valley.....				58								Elm westward.
Walnut.....										1		
	353	667	1669	5403	780	1	1	2	4	2	11	Total No. feet, 8,872.

1 $\frac{3592}{5280}$ miles laid in 1882.

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1882.

STREETS.	Length and size of cement-lined pipe laid.						Length and size of cast-iron pipe laid.						Gates set.						Air valves.	Hydrants.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1882, — Continued.

STREETS.	Length and size of cement-lined pipe laid.					Length and size of cast-iron pipe laid.								Gates set.						Air valves.	Hydrants.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Webster	1334	10	535	15</

LOCATION OF HYDRANTS SET IN 1882.

Appleton corner Pine.
 Appleton corner Union.
 Center corner River.
 Concord corner Ashland.
 Concord corner Hall.
 Concord corner Belmont.
 Granite corner Franklin.
 North corner Bay.
 Myrtle corner Russell.
 Pearl corner Russell.
 Pearl corner Linden.

The following places are where cement-lined pipe was taken up and cast-iron pipe laid instead : —

STREETS.	Length in feet.						LOCATION.
	20 in.	12 in.	10 in.	8 in.	6 in.	4 in.	
Auburn.....	8	.....	Opposite Auburn block.
Canal.....	13	.....	Corner Depot.
Chestnut.....	8	.....	Corner Merrimack.
Elm.....	282	.....	.....	.....	.....	Lawrence R. R. crossing.
Granite.....	8½	.....	Corner Main.
Hanover.....	4	.....	12	.....	Corner Wilson.
Milford.....	12	.....	Corner Bowman.
Merrimack.....	16	.....	Corner Chestnut.
Massabesic.....	307	.....	24	.....	.....	.....	Corner Belmont.
Pearl.....	8	.....	Opposite No. 142.
Spruce.....	24½	.....	Opposite Nos. 70, 10, and 194.
Spring.....	8	.....	Opposite No. 62.
Willow.....	15	.....	Corner Valley.
Wilson.....	15	.....	.....	.....	Corner Hanover.
Walnut.....	44	.....	Opposite No. 114.
West.....	18	.....	Opposite No. 100.
Washington.....	7	.....	Near Elm.
	307	282	43	.....	110	92	Total number of feet, 834.

DISTRIBUTION PIPES AND GATES LAID AND SET TO DATE.

SIZE.	Cement-lined pipe.	Cast-iron pipe.	Gates.
20 inch.....	20,627.90 ft.	411.00 ft.	5
14 inch.....	6,825.00 "	4,925.00 "	10
12 inch.....	8,118.00 "	6,952.00 "	16
10 inch.....	5,031.75 ft.	9,040.00 "	13
8 inch.....	12,563.00 "	5,966.00 "	32
6 inch.....	82,481.00 "	29,562.50 "	188
4 inch.....	8,657.00 "	2,047.00 "	17
	144,303.65 ft.	58,903.50 ft.	281

27.33 miles of cement-lined pipe.

11.156 " " cast-iron pipe.

38.486 " " cement and cast-iron pipe.

281 gates.

339 hydrants.

7 air-valves.

METERS.

There have been set during the year 67 meters, making the number now in use 371.

The sale of water by meter measurement is as fair for both the city and taker as has yet been devised. It would be too expensive to set them at every service pipe, for a large portion would not use water enough to pay for reading the register once a month and making the repairs. It is plain to be seen, in dry weather, that the lawns look the greenest where there are no meters, nevertheless the cost of water is less than a cent a barrel by measurement. It is probable, too, that meters do not register all the water that passes through them, and in such cases the consumer gets the advantage; but he will not be convinced that such is the fact, if there is a leak in his service pipe. The super-

intendent has never been able to find a hose attached to a tree, and the water running all night, where there was a meter set!

The number of applications for water to date has been twenty-two hundred and seventy (2,270).

One hundred and thirty-three (133) service pipes have been laid this year, as follows:—

68	$\frac{3}{4}$	inch diameter	1,622.6 feet.
60	1	“ “	1,527.4 “
1	$1\frac{1}{4}$	“ “	275.0 “
1	$1\frac{1}{2}$	“ “	16.0 “
2	2	“ “	52.0 “
1	4	“ “	36.0 “

Length of service pipe 3,529.0 feet.

Twenty-one hundred and twenty-seven (2,127) service pipes have been laid to date, as follows:—

40	$\frac{1}{2}$	inch diameter	860.7 feet.
1,786	$\frac{3}{4}$	“ “	46,952.2 “
257	1	“ “	7,275.1 “
20	$1\frac{1}{2}$	“ “	1,188.9 “
2	$1\frac{1}{2}$	“ “	73.0 “
16	2	“ “	572.3 “
6	4	“ “	172.0 “

Total length of service pipe 57,094.2 feet.
 Number of miles of service pipe 10.831

The income from the sale of water for 1882 has been as follows:—

Received for water by rate	\$46,933 06
“ “ “ “ meters	18,565 05
“ “ fines	197 49

"	"	rent of meters . . .	\$1,333 64
"	"	setting meters . . .	198 00
"	"	building purposes . . .	146 65
"	"	labor and pipe . . .	29 87
"	"	hay on Mill's meadow . . .	10 00
"		from G. G. Griffin . . .	1 00
"	"	Jas. Baldwin & Co. (main for hyd'nt use)	175 00
"		from L. B. Bodwell & Co. (use of derrick) . . .	15 00
"		from Goodhue & Birnie (12 ft. 14 in. pipe) . . .	24 37
"		from Mr. Webster (for plank)	1 00

Total	\$67,630 13
-----------------	-------------

Abatements. \$153.30

Current expenses for 1882 . . .	\$11,505 97
Expended for construction . . .	14,596 38
Paid interest	38,000 00

\$64,102 35

Balance receipts over expenditures . . .	\$3,527 78
Balance on hand Dec. 31, 1881	7,960 20
Balance on hand Dec. 31, 1882	\$11,487 98

CLASSIFICATION OF ACCOUNTS FOR 1882.

Superintendence, collection and re-

pairs	\$9,327 37
Stationery, printing, etc.,	49 38
Office and incidental expenses	235 91

\$9,612 66

Pumping expenses	\$1,813 35
Repairs to dams, canals, races and reservoir	57 88
Repairs to buildings	22 08
	<hr/> \$1,893 31

Running expenses for 1882. . . \$11,505 97

Service pipes	\$1,336 01
Distribution pipes	10,358 34
Fire hydrants and valves . . .	612 16
Meters and fittings	1,307 68
Dam, canal, penstock, and races .	18 35
Fencing	963 84

Total expended on construction in 1882 . . . \$14,596 38

Total expended in 1882 . . . \$26,102 35

CLASSIFICATION OF ACCOUNTS TO DEC. 31, 1882.

Land and water rights . . .	\$38,348 67
Dam, canal, penstock, and races .	101,399 16
Pumping machinery, pump-house, and buildings	88,493 96
Distributing reservoir and fixtures	71,542 36
Force and supply mains . . .	88,674 02
Distribution pipes	271,637 83
Fire hydrants and valves . . .	32,373 51
Tools and fixtures	10,649 35
Boarding and store houses . . .	919 36
Roads and culverts	2,193 49
Supplies	550 39
Engineering	22,176 19

Livery and traveling expenses	. \$2,856 64
Legal expenses	563 79
Grading and fencing	12,313 46
Service pipes	32,480 51
Meters and fixtures	11,265 06

Total construction account
to Dec. 31, 1882 \$788,437 75

Current expenses : —

Superintendence, collecting and re- pairs . . . . .	.\$57,457 36
Stationery, printing, etc.	4,090 65
Office and incidental expenses	3,914 04
Pumping expenses and repairs	13,674 38
Repairs to dam, canal, races, and reservoir	1,703 71
Repairs to buildings	276 56

Current expenses to Dec.

31, 1882	\$81,116 70
Interest	\$40,678 51
Highway expenditures	14,000 53
	<hr/> \$54,679 04

Total amount of bills ap-

proved to date	\$924,233 49
Interest, discount, and labor per- formed on highway, trans., and tools and materials sold	\$59,048 27
Current expenses to Dec. 31, 1882	81,116 70
	<hr/> \$140,164 97

Total cost, not including int.

and current expenses \$784,068 52

Interest and discount to Dec. 31,	
1881	\$309,802 51
Interest for 1882	36,099 00

Total interest and discount
to Dec. 31, 1882 \$345,901 51

Amount paid toward interest to	
Dec. 31, 1881	\$153,000 00
Amount of interest paid in 1882	38,000 00

Total \$191,000 00

The following amounts have been paid over to the city treasurer, and credited to the water-works : —

1872, supplies and materials sold	\$573 61
1873, supplies and materials sold	177 07
1873, accrued interest on water bonds sold	193 26
1873, accrued interest on state bonds sold	146 00
1873, water rents	1,920 53
1874, supplies and materials sold	607 89
March 12, 1874, highway expenditures, trans. from water account	14,000 53
March 17, 1874, interest and discount, trans. from water account	12,347 25
Sept. 1, 1874, interest and discount, trans. from water account	22,361 74

	1874, water and hydrant		
	rent, etc. . .	\$30,233	54
Dec.	29, 1874, interest transferred	4,566	25
Dec.	18, 1875, 1 anvil sold . .	15	00
Sept.	25, 1875, engine, crusher,		
	and material sold . .	2,089	45
	1875, water and hydrant		
	rent, etc. . .	27,119	15
May	20, 1876, derrick sold . .	125	00
May	20, 1876, rent of derrick . .	24	00
	1876, water and hydrant		
	rent, etc. . .	38,879	47
	1877, water and hydrant		
	rent, etc. . .	43,823	30
	1878, water and hydrant		
	rent, etc. . .	48,873	26
	1878, old plow sold . .	1	00
	1879, derrick sold . .	75	00
	1879, water and hydrant		
	rent, etc. . .	53,068	17
	1880, water and hydrant		
	rent, etc. . .	57,395	25
	sale of grass . . .	10	00
	level, transit, etc. . .	250	00
	1881, water and hydrant		
	rent, etc. . .	60,154	62
	sale of grass . . .	10	00
	sale of derrick . . .	50	00
	received of G. G. Griffin . .	1	00
	1882, water and hydrant		
	rent, etc. . .	67,403	76
	received of G. G. Griffin . .	1	00
	received of James Bald-		
	win & Co. . .	175	00

received for sale of grass	\$10 00
received of Goodhue & Birnie	24 37
received for old plank .	1 00
received for use of derrick	15 00

Total received for water, etc.	\$486,721 47
Amount appropriated to date . .	640,000 00
<hr/>	
Total received to date . .	\$1,126,721 47
Amount of bills approved to date . .	924,233 49
<hr/>	
	\$202,487 98
Amount paid toward interest . .	191,000 00
<hr/>	
Balance on hand Dec. 31, 1882 .	\$11,487 98

Respectfully submitted.

CHARLES K. WALKER,
Superintendent.

January 1, 1883.

USES FOR WHICH WATER IS SUPPLIED.

PUBLIC BUILDINGS.

1 Jail.	2 Cemeteries.
11 Churches.	1 Orphanage.
1 Court-house.	1 Post-office.
4 Hose-companies.	1 City Library.
4 Fire-engines.	5 Banks.
1 Hook-and-ladder.	5 Hotels.
2 Opera-houses.	1 Masonic Hall.
1 Music Hall.	1 Odd Fellows' Hall.
1 Convent.	1 Holly-tree Inn.
1 City Hospital.	3 Halls.
1 Old Ladies' Home.	20 School-houses.
1 Soldiers' Monument.	1 Battery Building.
1 Turner Hall.	

MANUFACTURING ESTABLISHMENTS.

1 Silver-plating.	2 Sash and blind shops.
1 Iron foundry.	2 Breweries.
2 Dye-houses.	2 Shoe-shops.
2 Machine-shops.	1 Pop-corn.
6 Clothing manufactories.	1 Gas-works.
3 Harness-shops.	3 Slaughter-houses.
1 Brush-shop.	1 Soap manufactory.
2 Carriage-shops.	1 Needle manufactory.
4 Cigar.	1 Beer-bottling.
1 Brass and copper foundry.	1 Book-bindery.
1 Locomotive-works.	

MARKETS.

4 Fish.	2 Meat (wholesale).
9 Meat and fish.	

STABLES.

- | | |
|-------------------|------------|
| 229 Private. | 14 Livery. |
| 1 Horse-railroad. | |

OFFICES.

- | | |
|--------------|-------------|
| 6 Dentists. | 7 Printing. |
| 1 Telephone. | 1 Gas. |
| 1 Telegraph. | 3 Coal. |
| 2 Express. | |

SHOPS.

- | | |
|----------------|---------------------------|
| 20 Barber. | 2 Curryng. |
| 1 Wheelwright. | 1 Plumber and gas and wa- |
| 6 Blacksmith. | ter pipe. |
| 5 Carpenter. | 8 Paint. |
| 1 Tinsmith. | 1 Gunsmith. |

STORES.

- | | |
|---------------------------|-----------------------------|
| 4 Auction. | 69 Grocery. |
| 19 Drug. | 4 Meal. |
| 7 Jewelry. | 3 Hardware. |
| 1 Fur. | 18 boot and shoe. |
| 2 House-furnishing goods. | 8 Stove. |
| 21 Fancy goods. | 15 Gents' furnishing-goods. |
| 1 Wholesale paper. | 10 Book. |
| 5 Wholesale produce. | 1 Leather and shoe finders. |
| 15 Dry goods. | 3 Music. |
| 10 Candy. | 3 Upholstery. |
| 1 Crockery. | 5 Undertakers. |
| 1 Cloak. | 6 Cigar. |
| 15 Millinery. | 5 Sewing-machine. |
| 2 Tea. | 1 Feather-cleaner. |
| 2 Furniture. | |

SALOONS.

9 Dining.	61 Liquor.
6 Billiard.	

MISCELLANEOUS.

4 Club-rooms.	3 Greenhouses.
2 Bleacheries.	1 Band-room.
8 Laundries.	11 Bakeries.
2 Ice-houses.	1 Waste.
9 Photographers.	

WATER FIXTURES, ETC.

5091 Families.	93 Urinals.
70 Boarding-houses.	1133 Sill cocks.
6287 Faucets.	339 Fire hydrants.
878 Wash-bowls.	9 Stand pipes.
895 Water-closets.	15 Water-troughs.
231 Wash-tubs.	883 Horses.
275 Bath-tubs.	37 Cattle.

MATERIAL ON HAND.

PIPE.

450 ft. 20 in. pipe.	624 ft. 14 in. pipe.
972 ft. 12 in. pipe.	156 ft. 12 in. flange pipe.
132 ft. 10 in. pipe.	2196 ft. 8 in. pipe.
2400 ft. 6 in. pipe.	31½ ft. 8 in. wrought iron pipe.

BRANCHES.

1 double 6 on 6.	4 double 6 on 12.
1 double 6 on 14.	1 double 4 on 6.
10 double 6 on 10.	1 double 10 on 20.
1 double 6 on 8.	2 single 6 on 20.
1 single 12 on 14.	5 single 6 on 10.
1 single 6 on 8.	5 single 6 on 6.
2 single 10 on 10.	3 single 6 on 14.
2 single 4 on 4.	3 single 6 on 12.
2 single 4 on 6.	1 single 8 on 8.

GATES.

1 4 in. Eddy spigot.	3 6 in. Ludlow spigot.
4 6 in. Ludlow hub.	

BENDS, SLEEVES, AND PLUGS.

1 8 in. 1-4 bend.	7 14 in. clamp sleeves.
1 12 in. 1-8 bend.	5 12 in. clamp sleeves.
1 4 in. 1-4 bend.	8 10 in. clamp sleeves.
3 6 in. 1-8 bend.	7 8 in. clamp sleeves.
6 20 in. solid sleeves.	10 6 in. clamp sleeves.
2 14 in. solid sleeves.	2 8 in. x 6 in. reducer.
8 10 in. solid sleeves.	3 14 in. cement plugs.
8 6 in. solid sleeves.	3 10 in. cast-iron plugs.

14 4 in. solid sleeves.	7 6 in. cast-iron plugs.
6 20 in. clamp sleeves.	4 6 in. wooden plugs.
1 12 in. whole sleeve.	1 8 in. wooden plug.
2 8 in. whole sleeves.	

437 feet inch pipe.

75 feet 2 inch pipe.

110 feet 3-4 inch pipe.

1200 pounds pig lead.

METERS.

10 5-8 in. Union rotary.	1 1 inch Union rotary.
9 5-8 in. piston.	10 3-4 in. piston.
2 1 inch piston.	1 3-4 in. Crown.
1 3-4 in. Desper.	2 1 inch Desper.

INVENTORY OF TOOLS AT THE PUMPING STATION.

1 scoop-shovel.	4 oil cans.
4 common shovels.	2 oil tanks.
1 desk.	300 pounds waste.
1 one-inch auger.	40 pounds tallow.
5 lanterns	30 pounds black lead.
3 monkey-wrenches.	5 cords wood.
1 square.	14 tons coal.
1 plumb square.	2 ice chisels.
1 sprinkler-pot.	2 cold chisels.
1 clock.	2 wood chisels.
1 washer-cutter.	2 hammers.
2 planes.	3 drip-pans.
2 thermometers.	1 two-inch auger.
1 lawn-mower.	1 ten-inch arbor for babbitt-
1 socket wrench.	ing.
6 fork wrenches.	1 flash-board hook.
2 screen wrenches.	1 broom.

- 4 crow-bars.
- 1 bellows and anvil.
- 2 pipe wrenches.
- 1 window brush.
- 1 gate wrench.
- 1 long key.
- 1 hydrant wrench.
- 1 wheelbarrow.
- 1 five-pail kettle.
- 3 picks.
- 1 clothes-drier.
- 2 ladders.
- 2 stoves.
- 2 coal hods.
- 1 coal-sifter.
- 2 gallons sperm oil.
- 1 bench.
- 2 levels.
- 1 waste press.
- 1 Scotch driller.
- 2 nozzles
- 1 pair shears.
- 1 pair pliers.
- 1 wire-cutter.
- 1 boat.
- 1 set steps.
- 1 1-4 barrels oil.
- 1 jack-screw.
- 1 brace and six bits.
- 1 trowel.
- 2 wood saws.
- 2 handsaws.
- 1 iron slush-bucket.
- 2 axes.
- 1 set blocks and falls.
- 6 pounds hemp packing.
- 1 draw shave.
- 2 screw plates, taps and dies.
- 1 vise.
- 200 feet 7-8 inch hose.
- 1 iron rake.
- 2 set dog chains.
- 1 set blacksmith's tools.
- 1 bushel basket.
- 2 pieces Scotch sewer pipe.
- 1 force pump
- 1 bill hook.
- 1 clevis and pin.
- 1 harrow.
- 1 timber roll.
- 4 sprinkling-pots.
- 1 lot lumber.
- 1 lot old iron.
- 5 oil barrels.
- 4 mortar hoes.
- 1 iron shovel.
- 150 feet hose.
- 1 No. 5 plow.
- 3 grub-hoes.
- 3 bush-scythes and snaths.
- 2 axes.
- 1 bellows.
- 10 mason hods.
- 1 lot of old wheelbarrows.
- 1 lot of old shovels.
- 1 20-inch gate.

AUDITOR'S REPORT.

*To the Honorable Board of Water Commissioners of the
City of Manchester :—*

GENTLEMEN, — I hereby certify that I have examined the accounts of the receipts in the office of Superintendent of Water-Works for the years ending Dec. 31, 1881, and Dec. 30, 1882, and find them correctly computed, and amounting, for the year 1881, to \$60,215.62, and for the year 1882, to \$67,630.13; and for having paid said amounts to the City Treasurer, he holds the certificates of the City Clerk.

Respectfully submitted.

JOSEPH E. BENNETT,

Auditor.

January 27, 1883.

WATER BOARD FOR 1883.

ALPHEUS GAY, *President*, term expires January 1, 1887.
JAMES A. WESTON, *Clerk*, term expires January 1, 1885.
HORACE B. PUTNAM, *Mayor*, term expires January 1, 1885.
WILLIAM P. NEWELL, term expires January 1, 1884.
EBEN T. JAMES, term expires January 1, 1886.
A. C. WALLACE, term expires January 1, 1888.
E. H. HOBBS, term expires January 1, 1889.

CHARLES K. WALKER, *Superintendent*.
ARTHUR E. STEARNS, *Registrar*.

REPORT
OF THE
CITY SOLICITOR.

REPORT

OF THE

CITY SOLICITOR.

To the City Councils of the City of Manchester : —

GENTLEMEN, — I would respectfully submit for your consideration the annual report of the Law Department of the city government for the past year.

There are now pending in the supreme court of Hillsborough county the following actions : —

1. — SIMEON CLARK, ADMR. OF WM. CLARK, *vs.* THE CITY.

At the last January term of the court, this action was marked for the jury and a jury impaneled to try the same ; the court being of the opinion that there were certain questions of law involved that would sooner or later have to be transferred to the law term, a case was reserved, and at the June term a decision rendered in favor of the city. At the last September term the plaintiff, through his counsel, asked leave to amend his writ, and the question of his right so to do has been sent to the law term, and will probably be decided in March next.

2. — HANS J. ROSENBURY *vs.* THE CITY.

The plaintiff in this suit, having removed from the state,

at the last term of court, upon my motion, a new indorser was to be furnished prior to December 16, 1882. No indorser having been furnished, a non-suit will undoubtedly be ordered at the January term.

3. — DANIEL FARMER *vs.* THE CITY.

This action at the last May term was referred by mutual consent; but owing to the sickness of the plaintiff has not yet been tried.

4. — SARAH A. DAVIS *vs.* THE CITY.

This action was tried in January, 1882, and a verdict of two thousand dollars returned in favor of the plaintiff. On account of the introduction of certain evidence, which the defendant's counsel excepted to, a case was reserved, which will probably be determined in March next.

5. — KATE TOOHER *vs.* THE CITY.

This action was entered at the last May term. The plaintiff claims damages on account of falling into a cellar-way on Birch street. Damages claimed, \$3,000.

6. — JOHN B. CLARKE *vs.* THE CITY.

The plaintiff claims that, while driving on Main street in January last, his sleigh, coming in contract with the track of the horse-railroad, was overturned, and, by reason of being thrown therefrom, severe personal injuries were incurred. The railroad has been summoned to appear and defend, and counsel has been retained by it. The action will probably be tried at the ensuing term. Damages claimed, \$2,000.

7. — ADELINE J. GEOFFROY *vs.* THE CITY.

The plaintiff alleges that on the first day of June, 1882,

owing to a defect in the sidewalk in front of Wells' block, she fell and received severe bodily injuries. Damages claimed.

8. — ELIZA CREIGHTON *vs.* THE CITY.

This is an appeal from the award of the mayor and aldermen for damages caused to the plaintiff by reason of raising the grade on Elm street, opposite her residence. This action will soon be tried before the county commissioners.

9. — MANCHESTER *vs.* COUNTY OF HILLSBOROUGH.

The condition of this action remains the same as it was at my last report. It is still pending in the court, and awaiting the decision of the full bench. Briefs have been furnished by the county solicitor and myself.

10. — JAMES A. WESTON *vs.* THE CITY.

The plaintiff claims an abatement of his tax by reason of the assessors' having taxed certain national bank shares, which he, the plaintiff, claims are exempt from taxation under the provisions of the General Laws. A case has been agreed to by the plaintiff's counsel and myself, and will probably be decided at the next law term.

11. — MARCUS P. NORTON, TRUSTEE AND ASSIGNEE, ETC.,
AND BENJAMIN RICHARDSON *vs.* THE CITY.

This suit is now pending in the U. S. circuit court, it having been entered at the last October term. The case has been so thoroughly discussed in the public press that I deem it unnecessary to give a history of it in this report. It is brought to recover damages for an alleged infringement of certain patent rights, and the damages claimed are \$90,000. This suit will be vigorously contested ; although

it would not be prudent to make public the steps which have already been taken in preparation for a defense. I can assure you that every thing possible will be done to defeat the plaintiffs in their unjust and exorbitant demands.

The present Committee on Claims have had thirty-seven meetings during their term of office. I think I have been present at all of their meetings, with one exception.

Upon my suggestion, the efficient chairman of the Committee on Claims prepared and presented to the city councils a joint resolution (which was passed), empowering and instructing the mayor to cause an immediate investigation to be made of the circumstances attending all accidents happening on any highway or street, and I have no doubt that many hundreds, if not thousands, of dollars have been saved because of such action.

During the past year I have had but little to do in the police department, as the long experience of City Marshal Longa rendered any assistance on my part unnecessary, except in a few instances.

Respectfully submitted.

WILLIAM R. PATTEN.

City Solicitor.

MANCHESTER, N. H., Jan. 1, 1883.

REPORT
OF THE
TRUSTEES OF THE CITY LIBRARY.

ANNUAL REPORT

OF THE

TRUSTEES OF THE CITY LIBRARY.

To the City Councils of the City of Manchester : —

In accordance with the regulations, the Trustees of the City Library herewith submit their twenty-ninth annual report of the affairs of the library, and, in connection with it, present the report made to them by the treasurer of the board of the expenditures made from the funds placed under their control, and also the report of the librarian, which shows in detail the operations of the library during the past year, and the condition of the library and other property under her charge at the close of the year.

It is a source of gratification to the trustees to be able to report to the city councils the continued prosperity of the library, and that the constantly increasing use of the more valuable and standard works contained in it evinces the public appreciation of its utility, and its importance as a means of information and study.

As will be seen by the report of the treasurer, there has been expended the past year, for the purchase of books, the sum of twelve hundred dollars and ninety-seven cents, and for the purchase of periodicals the sum of one hundred sixty-two dollars and eighty-one cents, making a total

expenditure for both these purposes of thirteen hundred sixty-three dollars and seventy-eight cents, leaving a balance in the hands of the treasurer at the close of the year of four hundred thirty-four dollars and twenty-one cents. Of the amount expended for the purchase of books, ninety-five dollars and fifty-three cents were paid for books to replace those that from long and constant service had become so worn as to necessitate their withdrawal from circulation.

The balance above indicated, together with the accumulated income of the Dean fund, which now amounts to the sum of three thousand seven hundred forty-six dollars and fifty-eight cents, constitutes the funds in the hands of the trustees at the end of the year available for the future increase of the library.

The report of the librarian shows that the library has been open for the delivery of books two hundred and eighty-nine days, during which time the number of books in circulation has been forty-one thousand seven hundred and eighty-eight. In addition to this number delivered for general circulation, four thousand seven hundred and seventy books and magazines have been delivered for use in the reading-room at the library, making the total number delivered during the year forty-six thousand five hundred and fifty-eight.

The number of volumes in the library at the date of the last report was twenty-five thousand and forty. During the year there have been added five hundred and thirty-six volumes by purchase, three hundred and thirty-seven volumes by donation, and one hundred and one volumes of periodicals have been bound, making the number of bound volumes in the library at the present time twenty-four thousand two hundred and sixty-eight, and the total

number, including maps and pamphlets, twenty-six thousand and fourteen.

Seventy-two volumes have been withdrawn from circulation during the year, because so worn by constant use as to be no longer fit for service. Of this number, and of those withdrawn from circulation in former years for the same cause, one hundred and nine have been replaced. Many of the books retired from circulation were published some time ago, and are now out of print, and the trustees find no little difficulty in obtaining them, but have no doubt that in time most of them may be procured.

Fifty-six different periodicals have been regularly received at the library during the year, a number somewhat less than usual, occasioned mainly by reason of several periodicals heretofore received having ceased publication. This deficiency it is the intention of the trustees to supply by the substitution of other periodicals for those that have been discontinued.

Donations of books have been made to the library by a number of persons, a list of whom, and of the works presented, will be found annexed to the report of the librarian; and to those who have thus manifested their interest in the prosperity of the library, the trustees, in behalf of the city, extend their thanks.

The expenditures for the incidental expenses of the library for the year have been two thousand one hundred fifteen dollars and seventy-two cents. The details of these expenditures, the bills for which have been paid through the office of the city treasurer, may be found at length in the annual report of the city.

A more lucrative position having been offered Mr. George W. Cook, who had been employed as an assistant to the librarian, he tendered his resignation, the same to take effect April 19. The resignation was accepted, and the

vacancy thus occasioned was immediately filled by the employment of Mr. George W. Burleigh.

The library was re-opened January 23, the trustees not feeling justified in depriving the public longer of its use, although at that date the addition to the library building was far from complete. Every precaution was taken to prevent loss or injury while work upon the addition was in progress. The addition was ready for use about the first of June, and upon its occupation it was found necessary to re-arrange all the books in the library, in order to give space in each department for future accessions and at the same time preserve the present classification. Though attended with some difficulty, being undertaken while the library was open to the public and the books in circulation, the work was cheerfully performed by the librarian and her assistant without additional compensation.

The completion of the addition to the library building will afford to the trustees the opportunity they have long desired, of making purchases of books from the accumulated income of the Dean fund. It has been decided by the trustees to place the books purchased with this fund in alcoves by themselves in the library, to be designated as the purchase of the Dean fund. In selecting the books for this new department, in view of the life-long business relations of the donor with the important industries of this city, it will be the aim of the trustees to make purchases of the more valuable scientific and technical publications, thereby bringing within the reach of the reader and student works which private collections do not and cannot contain, and which otherwise would not be accessible to the public at large.

The trustees are under obligations to the officers and members of the city councils with whom they have been brought in connection in the management of the affairs of

the library, for the courtesy and consideration with which their suggestions in relation to the operation of the library, and the construction of the addition to the library building, have been received and carried out.

Mrs. M. J. Buncher has discharged the duties of librarian for the past year with the same fidelity as heretofore, and to the satisfaction of the trustees.

January 22, 1883.

In Board of Trustees, read and approved, and ordered to be signed by the chairman and clerk of the board, and transmitted to the city councils.

H. B. PUTNAM, *Mayor*.

N. P. HUNT, *Clerk*.

TREASURER'S REPORT.

To the Board of Trustees of the City Library :—

The Treasurer of the Board presents the following report of the receipts and expenditures by the board of the funds received by them on account of the City Library :—

1882.		DR.
Jan.	1.	To balance of appropriation, etc., as per last report \$767 39
Feb.	17.	cash of I. W. Smith for book 2 33
July	3.	appropriation for 1882 for pur- chase of books 1,000 00
Nov.	28.	cash of Mrs. M. J. Buncher, bal- ance of fines 13 82
		cash of Mrs. M. J. Buncher for catalogues 14 45
Jan.	1.	balance of income of Dean fund . . . \$3,082 11
		income of Dean fund 153 00
July	1.	income of Dean fund 153 00
		interest on accumula- tion of income . . . 68 60
		interest on accumula- tion of income . . . 67 62
		interest on accumula- tion of income . . . 222 25
		\$3,746 58
		\$5,544 57

1882.		CR.
Jan.	2. Paid Lee & Shepard, books . . .	\$3 42
	4. Little, Brown, & Co., books . . .	190 00
	6. N. E. News Co., periodicals . . .	13 03
	25. S. Hayward, books, . . .	6 50
	25. J. N. McClintock, books . . .	2 00
	27. J. A. Vrooman, periodicals . . .	5 00
Feb.	7. N. E. News Co., periodicals . . .	13 65
	11. Boston Society Nat. History, periodicals	3 10
	11. Charles A. Bemis, books . . .	3 85
	11. H. L. Reed, books	13 00
	13. Q. P. Index, books	5 00
	25. Legget Brothers, books . . .	19 00
March	10. N. E. News Co., periodicals . . .	10 18
	10. Boston Society Nat. History, periodicals	3 50
	27. Little, Brown, & Co., books . . .	3 75
April	5. N. E. News Co., periodicals . . .	13 05
	13. Geo. H. Polley & Co., peri- odicals	12 00
May	4. N. E. News Co., periodicals . . .	12 41
	19. Geo. H. Polley & Co., books . . .	29 25
June	5. N. E. News Co., periodicals . . .	10 34
	7. Lee & Shepard, books	54 12
	14. Lee & Shepard, books	48 78
	15. H. L. Reed, books	4 50
	23. Lee & Shepard, books	96 28
	28. Little, Brown, & Co., books . . .	4 75
July	7. N. E. News Co., periodicals . . .	10 65
Aug.	4. N. E. News Co., periodicals . . .	11 85
Sept.	5. N. E. News Co., periodicals . . .	10 01
	14. Lockwood, Brooks, & Co., books	128 64

Sept.	16.	Lockwood, Brooks, & Co., books	\$83 57
Oct.	4.	N. E. News Co., periodicals .	13 32
	7.	Lockwood, Brooks, & Co., books	17 46
	14.	Lockwood, Brooks, & Co., books	27 71
	20.	J. N. McClintock, books .	2 00
Nov.	6.	N. E. News Co., periodicals .	10 26
	10.	Lockwood, Brooks, & Co., books	56 93
	18.	Little, Brown, & Co., books .	208 00
	21.	T. W. Lane, books	3 70
	22.	Sullivan Brothers & Libbie, books	18 02
Dec.	4.	Little, Brown, & Co., books .	7 50
	4.	Lockwood, Brooks, & Co., books	120 59
	5.	N. E. News Co., periodicals .	10 46
	15.	Temple & Farrington, books	5 00
	16.	Clara A. Lynn, books	1 17
	21.	Little, Brown, & Co., books .	3 75
	21.	Lockwood, Brooks, & Co., books	32 73
	31.	By balance of appropriation, etc. .	434 21
		income of Dean fund	3,746 58
			<hr/> \$5,544 57

The expenditures for incidental expenses of the library for the year ending December 31, 1882, the items of which will be found at length in the annual report of the city, are as follows : —

Services of librarian	\$600 00
Services of assistant to librarian	290 25
Fuel	581 51
Gas	197 82
Binding	95 91
Re-binding	65 69
Covers, and printing same	70 85
Insurance	32 50
Printing trustee's report	11 00
Water	26 25
Incidentals	143 94
	<hr/>
	\$2,115 72

RECAPITULATION.

Balance Dec. 31, 1881	\$334 51
Appropriation for 1882	3,000 00
	<hr/>
	\$3,334 51
Paid trustees for purchase of books \$1,000 00	
Incidental expenses	2,115 72
Balance due Dec. 31, 1882	218 79
	<hr/>
	\$3,334 51

Respectfully submitted.

N. P. HUNT,
Treasurer of Trustees of City Library.

December 30, 1882.

We have examined the above report, and find the same correctly cast and properly vouched.

WM. P. NEWELL,

H. B. PUTNAM,

Committee on Accounts of City Library.

December 30, 1882.

I certify that I have examined the several items of receipts and expenditures embraced in the foregoing report of the treasurer of the trustees of the City Library, and find the same correctly cast and properly vouched.

NATHAN P. KIDDER,

City Auditor.

LIBRARIAN'S REPORT.

Gentlemen of the Board of Trustees:—

I respectfully submit the annual report of the condition of the library during the year ending December 31, 1882:—

Whole number of volumes Dec. 31, 1881	25,040
---------------------------------------	--------

Accessions during the year:—

By purchase	536	
Donated	337	
Periodicals bound	101	
		974

Whole number of volumes at present:—

Maps	16	
Pamphlets	1,730	
Bound volumes	24,268	
		26,014

Number of periodicals and papers regularly received	56
---	----

Number of days open to the public	289
---	-----

Days open for delivery of books	289
---	-----

Volumes in circulation during the time	41,788
--	--------

Average per day	144.59
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Largest number any one day, March 11	397
--	-----

Whole number of books, magazines, etc., used in the library	4,770
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Average per day	16.5
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Number of guarantees received	962	
Whole number since the new registration . .	3,459	
Number of persons using books on deposit . .	8	
Postals sent for books overdue	353	
Number of worn-out books and taken from the shelves	72	
Replaced books during the year	109	
Number of books repaired at bindery . . .	373	
Repaired and covered in the library . . .	8,921	
Number of books found, missing at previous ex- aminations	10	
Balance of fines on hand Dec. 31, 1881 . . .	\$13 82	
Amount received from Jan. 1 to Dec. 31, 1882	73 73	
	<hr/>	\$87 55
Amount paid for express, station- ery, and other incidental ex- penses	\$52 80	
Paid N. P. Hunt, treasurer	13 82	
	<hr/>	\$66 62
Balance of fines on hand Dec. 31, 1882 . .	\$20 93	
Balance of cash on hand Dec. 31, 1881, for cata- logues sold, books lost, and waste paper . .	\$14 45	
Amount received from Jan. 1 to Dec. 31, 1882:		
For 23 new catalogues at 75 cents . .	\$17 25	
For 3 old catalogues at 35 cents . .	1 05	
For 38 supplements at 10 cents . .	3 80	
One book injured	0 88	
	<hr/>	\$22 98
	<hr/>	\$37 43
Paid N. P. Hunt, treasurer	14 45	
	<hr/>	\$22 98

Balance received for fines	\$20 93
<hr/>	
Total balance on hand	\$43 91

In presenting the foregoing report for your acceptance, it is with a sincere hope that you will bear in mind the revolution through which the library has passed during the closing year, and, if the general result falls a little short of previous years, allow this to largely account for it.

The library was re-opened on the 23d of January, before the completion of the annex, and was necessarily in a disturbed and somewhat exposed condition, but every care was taken to preserve the books from injury and loss. Toward the close of May, when the new addition was ready for use, it was thought best to re-arrange the entire library, reversing the shelf numbers and leaving spaces in each department for new books. This necessitated the moving of every volume, and as the closing of the library was thought inadvisable, the work was done with the books in circulation, requiring many weeks of steady, careful work. Each volume was thoroughly dusted, and the shelves made clean. In short, the interior of the building (as far as possible) received an entire renovation. Thousands of books were re-covered and many repaired. A number of missing books came to light, having been misplaced or hidden behind other volumes. Both the summer and present examinations have been made with the books in circulation. We have endeavored to make them thorough and satisfactory, but cannot feel the confidence in this method of examination as when the books are called in, at least once a year. The volumes missing at the summer examination have all come in except five; those are small books and of small value. The number at the present examination is eight; they are books in constant circulation, and I do not report them as

lost because I believe they will probably come in. Ten volumes missing at the several examinations of 1879, 1880, and 1881 are again on the shelves.

There is nothing of special importance in addition to the above, regarding the work of the library the past year. Every thing has moved on with its usual harmony, and, judging from the many testimonials received, there have been an increasing interest and appreciation of the value of its privileges, not only as a source of pleasure but of real profit, in the valuable accessions made from year to year, especially in works of art, history, and science.

Respectfully submitted.

M. J. BUNCHER, *Librarian*.

DONATIONS TO THE CITY LIBRARY

FROM JANUARY 1, 1881, TO DECEMBER 31, 1882.

WOMAN'S TEMPERANCE UNION, Manchester, N. H.

Twenty-seven volumes on the Subject of Temperance.

THE SWEDENBORG PRINTING AND PUBLISHING SOCIETY, New York.

The Swedenborg Library. 12 Vols. 16mo. Giving his system of Theology.

HON. MOODY CURRIER, Manchester N. H.

Six volumes, to complete the sets of "Neander's Church History" and works of St. Augustine.

MRS. GARDNER BREWER, Boston, Mass.

Annals of King's Chapel, Vol. 1. 8vo.

JAMES S. McDONALD, State Librarian, New Jersey.

Volumes 3 and 4 of the New Jersey Archives. 8vo.

MRS. HATTIE A. SILVER, San Francisco, Cal., formerly of Manchester.

Gardner's Cabinet Cyclopedia. 3 Vols. 12mo.

Cooper's Naval History of the U. S. 2 Vols. 8vo.

Macaulay's History of England. 2 Vols. 8vo.

Alison's History of Europe. 1 Vol. 8vo.

McCulloch's Universal Gazetteer and Thiers' French Revolution, unbound.

S. C. GOULD, Manchester, N. H.

Nine volumes, Register and Farmer's Almanac, from 1871 to 1881, completing the set.

New Hampshire Annual Register for 1863.

MRS. WM. HOOPER, Manchester, N. H.

Vol. 131 North American Review, and other miscellaneous pamphlets.

MR. GEORGE LIVERMORE, Manchester, N. H.

Volumes 34 and 35 (with supplement) of Scientific American, 1876, and twenty-four miscellaneous pamphlets.

MR. CHARLES F. LIVINGSTON, Manchester, N. H.

Directory (with map) of the City of Holyoke, Mass. Springfield Republican for the year 1881.

One volume of bound pamphlets. 8vo.

PROPRIETORS, Manchester, N. H.

Echo des Canadiens, Vols. 2 and 3, 1881 and 1882.

MRS. E. P. STONE, Manchester, N. H.

Seven volumes of ancient dates, viz.: —

The Pleasing Library, published in 1801. 12mo.

The Psalms of David, published in 1803. 12mo.

A View of Religions. By Hannah Adams. Without date, but dedicated to John Adams, Vice-President of the United States. 12mo. Others of later date.

MRS. M. J. BUNCHE, Manchester, N. H.

Two volumes Wonders of Creation, published in 1807.

Beauties of the Bible, published in 1822.

FREDERICK MORLEY, compiler.

Michigan and Its Resources. 1882. 8vo.

RICHARD J. EVERETT, Esq., Boston.

Is Consumption Contagious? By H. C. Clapp, M. D. 12mo.

S. O. EASTMAN, Concord, N. H.

Memorial of George Gilman Fogg. Pamphlet.

HON. JAMES W. PATTERSON, Concord, N. H.

Thirty-sixth Annual Report of the Superintendent of
Public Instruction in New Hampshire. 8vo.

REV. G. T. RIDLON, author, Manchester, N. H.

History of the Early Settlers of Maine. 12mo.

Genealogy of the Burbank and Burbanck families in
the United States. Pamphlet.

ALFRED GILMAN, Esq., Lowell, Mass.

Contribution of Old Residents' Historical Association,
Lowell. Nos. 1, 2, and 3 of Vol. 1, and No. 2 of
Vol 2.

GODFREY MORSE, LL. D., author.

Memoirs of John Plummer Healey, LL. D., late City
Solicitor of Boston, Mass.

WILLIAM F. POOLE, Esq., Librarian, Chicago.

Progress of Library Architecture. By Wm. F. Poole,
Esq.

Tenth Annual Report of the Public Library, Chicago.

EDWARD T. CASWELL, M. D., Providence, R. I.

Reform in Medical Education. Pamphlet.

S. D. LORD, Esq., Manchester, N. H.

Evolution in Relation to Agriculture. Pamphlet.

J. T. FANNING, Esq., Manchester, N. H.

Report of the Water Supply for New York and other
Cities of the Hudson Valley, 1881. By J. T. Fan-
ning, Esq.

COBDEN CLUB, London, Eng.

The A B C of Free Trade. By Edward N. Buxton.
Pamphlet.

England under Free Trade. By George W. Medley.
Pamphlet.

Pleas for Protection. By Augustus Mongredien.
Pamphlet.

Financial Reform Almanack for 1882. 8vo.

WM. KITE, Librarian, Germantown, Penn.

An Address on the evils of demoralizing literature and art. Pamphlet.

Annual Report of the Friends' Free Library and Reading-room, Germantown Penn., 1881. Pamphlet.

MRS. SAUNDERS, Librarian, Pawtucket, R. I.

Catalogue of the Pawtucket Free Library, 1882.

ARTHUR W. TYLER, Librarian.

Reports of the Public Library, Indianapolis, Ind., for two years, ending June, 1881. Pamphlet.

WM. H. STINSON, ESQ., Dunbarton, N. H.

Proceedings of the eighth annual session of the New Hampshire State Grange, 1881. Pamphlet.

HON. H. B. PUTNAM, Mayor, Manchester, N. H.

Annual Report of the Commissioners of Hillsborough county, for 1881. Pamphlet.

E. M. BOWMAN, ESQ., City Clerk, Nashua, N. H.

Twenty-ninth Municipal Report of the City of Nashua, for 1881. 12mo.

GEORGE W. RIDDLE, ESQ., Manchester, N. H.

Centennial Newspaper Exhibition, 1876, giving a complete list of newspaper publishers in America. By George P. Rowell, N. Y.

National Trotting Association "Blue Book," containing an official list of persons and horses under penalty, April 30, 1878. Pamphlet.

UNKNOWN.

The Inaugural Address of Samuel Abbott Green, Mayor of Boston, January 2, 1882. Pamphlet.

Minnesota. Its Resources and Progress. Pamphlet.

The Ballot. Dangers from its Perversion.

The Gladstone Pamphlet. The Vatican Decrees in their Bearing on Civil Allegiance, by Right Hon.

E. W. Gladstone. Answer by Archbishop Manning, and English views on the reply.

FROM THE SEVERAL LIBRARIANS OR BOARDS OF TRUSTEES.

Twenty-ninth Annual Report of the Mercantile Library Association, San Francisco, for 1881. Pamphlet.

Annual Report of the Public Library of Cincinnati, O., for the year ending June, 1881. Pamphlet.

Fifty-second Annual Report of the Board of Education in Cincinnati, O., 1881. 8vo.

Fourth Report of the Providence Free Library, Providence, R. I. 1881. Pamphlet.

Twenty-second Annual Report of the Free Public Library, Worcester, Mass. 1881. Pamphlet.

Thirtieth Annual Report of the Peabody Institute, Peabody, Mass. 1881. Pamphlet.

Fifteenth Annual Report of the Peabody Institute, Baltimore, Md. June 1, 1882. Pamphlet.

Report of the Library Association, Springfield, Mass. 1881-82. Pamphlet.

Tenth Annual Report of the Free Public Library, Lawrence, Mass., and Bulletin No. 34.

Twenty-ninth Annual Report of the Free Library of Brookline, Mass. 1881. Pamphlet.

Eighth Annual Report of the Bigelow Free Library, Clinton, Mass. 1881. Pamphlet.

Sixty-first Annual Report of the Mercantile Library Association, New York City. 1881. Pamphlet.

Thirtieth Annual Report of Boston Public Library, year ending April, 1882, and Bulletins Nos. 1, 2, 3, and 4. Vol. 5. Pamphlets.

Annual Report of the City Library, Lowell, Mass., for 1881. Pamphlet.

Report of the Free Library, Concord, N. H., for 1881. Pamphlet.

Eleventh Annual Report of the Public Library, Melrose, Mass.

Report of the Free Library, Newton, Mass., for 1881.

Twenty-fourth Annual Report of the Public Library at Woburn, Mass. 1881. Pamphlet.

Report of the Nesmith Library, Windham, N. H. 1881.

Annual Report of the Town Officers of Peterborough, N. H., for the year 1881. Pamphlet.

Thirty-third Annual Report of the Woman's Medical College of Pennsylvania. 1882. Pamphlet.

Bulletins Nos. 8 and 9 of the Library Company, Philadelphia. New series. July, 1882. Pamphlet.

Bulletin No. 17 of the Public School Library of St. Louis, Mo. 1881. Pamphlet.

Annual Report of the Receipts and Expenditures of the City of Manchester, N. H., for 1881.

STATE OF NEW HAMPSHIRE. Seven volumes, viz.: —

Annual Reports of the Legislature for the years 1880, 1881. 8vo.

Journals of New Hampshire Senate and House, for the years 1873, 1874, 1875, 1876, and 1881. 8vo.

HON. JAMES F. BRIGGS, M. C.

Nineteen volumes Congressional Documents, viz.: —

First Annual Report of the United States Entomological Commission. 1877. 8vo.

Annual Report of the Commissioner of Agriculture. 1880. 8vo.

Message and Documents, 1880-81, 3d session, 46th Congress, edited by Ben: Perley Poore. 8vo.

Reports of the Secretary of War, 2d Session, 46th Congress. Vols. 1, 2, 3, and 4, and Parts 1, 2, and 3 of Vol. 2. 1879. 8vo.

Report on Commercial Relations of the United States. Vols. 1 and 2. 1879. 8ve.

Smithsonian Reports for 1879-80. 8vo.

Report of the Secretary of War, 3d Session, 46th Congress. Vol. 1.

Report of the Secretary of the Interior. Vols. 1 and 2. 1880-81.

Report of the Secretary of the Navy for 1880-81. 8vo.

Reports of the Postmaster-General. 1879, 80-81.

Report of the Attorney-General. 1880-81.

Also nine maps, viz. : —

Bay and Harbor of New York.

Atlantic Coast.

Coast Chart No. 4, Penobscot Bay.

Coast Chart No. 8, From Wells to Cape Ann.

Coast Charts Nos. 9 and 10, Massachusetts Bay.

Salem Harbor.

Portsmouth Harbor.

Mount Desert Island.

Coast Chart No. 77, Tampa Bay, Florida.

DEPARTMENTS, Washington D. C.

Annual Report of the United States Life-saving Service for the year ending June 30, 1881. 8vo.

Report of the Superintendent of the United States Coast Survey for the year 1879. 4to.

Report of the Chief Signal Officer for 1879. 4to.

Official Register of the United States. Vols. 1 and 2. 1881. Legislative, Executive, and Judicial.

List of Congressional documents from the 20th to the 46th Congress, inclusive. 8vo.

Contribution to North American Ethnology. Vols. 3 and 4. 4to.

Annual Report of the Commissioner of Patents for the year 1881. 8vo.

Alphabetical list of Patentees, July — December, 1881. 8vo. January — June, 1882.

Circulars of Information of the Bureau of Education,
Nos. 4, 5, and 6, 1881. No. 1, 1882. Pamphlets.

SMITHSONIAN INSTITUTE, Washington.

Annual Report for 1880. 8vo.

First Annual Report of the Bureau of Ethnology, by
J. W. Powell, director. 1881. 4to.

LIBRARIAN WAR DEPARTMENT, Washington.

Alphabetical Catalogue of the War Department Li-
brary, including Law Library, Authors and Subjects.
1882. 8vo.

FROM UNITED STATES CONGRESS.

Forty-two volumes of Public Documents.

REPORT
OF THE
CITY ENGINEER.

REPORT

OF THE

CITY ENGINEER.

To His Honor the Mayor, and Gentlemen of the City Councils: —

SIRS,—Please to accept the following as my second annual report of the work done in the City Engineer's office, and in the several highway districts of the city of Manchester.

The expenses for the year 1882 are as follows: —

For salary of city engineer and as-		
sistants	\$1,983	50
drawing instruments and mate-		
rials	123	15
repairs of instruments . . .	29	10
horse-hire and car-fares . . .	147	84
incidental expenses	19	05
gas	11	52
		\$2,314 16
Expense on soldiers' monument:		
For cleaning lamps for the year .	\$9	00
removing, repairing, and put-		
ting on cover	2	00
gas	25	02
water	25	00
		\$61 02

Additional surveying instruments have been purchased so as to give us a complete set; also drawing instruments sufficient for two workmen. I have furnished at my own expense, this year, one complete set of surveying instruments, transit, level, etc., the same as last year, as I have kept two, and sometimes three, parties in the field. Of the item of repairs, twenty-one dollars was caused by a careless teamster's running over a transit at the corner of Park and Massabesic streets; it will require about thirty dollars more to make the instrument as good as before, as the circle was injured, and could only be replaced by having a new one made in Washington. By using great care, fair work can be done with it as it is.

The amount of the work done in the office this year is as follows: —

Total number of orders for surveys, — street lines and grades, — 417.

Total number of orders for paving and sewers, 261.

Levels for profiles for establishing grades, 35,236 feet, equal to 6.67 miles.

As these profiles show three lines through each street, the actual work is equal to 20 miles of levels every 50 feet or less.

Levels for sewer profiles, 15,839 feet, equal to 3 miles.

Levels for profiles in Pine Grove Cemetery, 2,180 feet, equal to .41 mile.

Surveys of streets and street lines, 62,509 feet, equal to 11.8 miles.

Street lines given, 28,865 feet, equal to 5.5 miles.

Grades set for sidewalks	31,021 feet
Grades set for macadamizing	1,353 “
Grades set for cutting and filling streets	3,650 “
Grades set for horse-railroad, Bridge street	2,283 “

Grades set for walks, Pine Grove Cemetery, (reset three times)	. . . . .	2,300 feet
Grades set for gutters	. . . . .	3,627 "
Grades set for paving	. . . . .	1,120 "
		<hr/>
Total grades set	. . . . .	45,354 feet

Whole number miles of grades set, 8.6.

Street numbers assigned, 704.

Lots laid out at Pine Grove Cemetery, 80 ; also three tiers single graves sufficient for three years' use.

PLANS AND PROFILES MADE FOR SIDEWALK GRADES.

Valley street, Elm to Massabesic street. 7 plans.

Myrtle street, Oak to Derry old line.

Main street, Granite to McGregor street. 2 plans.

Lowell street, Chestnut to Walnut street.

Gore street, Union to Oak street.

Beech street, Orange to Gore street.

Laurel street, Chestnut to Pine street.

Auburn street, Franklin to Canal street.

Manchester street, Hall to Milton street.

Depot street, Franklin to Canal street.

Olive street, Amherst to Concord street.

Massabesic street, Park to Belmont street.

Fourth street, Walker to Manchester & North Weare Railroad.

West Webster street, Elm street to River road.

Orange street, Oak to Linden street.

McGregor street, Main to Main street. 2 plans not completed.

Total sidewalk plans and profiles, 24.

SEWER PLANS AND PROFILES.

Bridge and Russell streets, Cross to Myrtle street.

Birch street, Lowell to Bridge street.

Cedar south back street, Union to Maple street.

Center street, River to Third street.

Central south back street, Elm east back to Union street.

Church and Bridge south back street, Lowell to Birch street.

Cross street, Bridge to Pearl street.

Elm street, Harrison to Sagamore street.

Elm east back street, Sagamore to Webster street.

Harrison street, Beech to Russell street.

Hazel street, Harrison to Brook street.

Lowell and Maple streets, Concord to Ashland street.

Main street, Granite to McGregor street. 2 plans.

Manchester street, Lincoln to Milton street. 3 plans.

Maple street, Nashua to Pearl street. 2 plans.

Merrimack street, Wilson, west 350 feet.

Nashua and Olive streets, Amherst to Bridge street.

Park south and Pine east back streets, Cedar to Union street.

Pine street and Pennacook north back street, Pennacook south back to Union street.

Prospect street, Union to Russell street. 2 plans.

River street, Ferry to Center street.

River street, Ferry to North Weare Railroad.

Sagamore street, Elm to Elm east back street.

Spruce south back street, Union to Maple street.

Union east back street, Harrison to Pennacook north back street.

Walnut east back street, Harrison to Brook.

Total sewer plans and profiles, 31.

MISCELLANEOUS PLANS.

- Elm street, bridge over Manchester & Lawrence Railroad.
 2 plans.
 Manchester street, location of Porter accident.
 Canal street, location of the Mrs. Julia Joy accident.
 Main street, location of the John B. Clarke accident.
 Vine street, plans for extension of city stable. 2 plans.
 New city yard.
 Depot, Franklin, Canal, and Granite streets, square
 bounded by.
 Valley Cemetery, new avenue. Plan and profile.
 Smith's Ferry road.
 Hall street, Hanover to Bridge street. Plan for fixing
 street lines.
 Cemetery brook, at junction of Spruce and Massabesic
 streets.
 Land purchased of J. A. Poor for District No. 3.
 Baker street, River road to Nutt road.
 Massabesic hose-house and cottage.
 Plans and elevations of sheds at city yard.
 New school lot, Bakersville.
 Chestnut street, Webster to Clarke street.
 Pine Grove Cemetery, lots corner Highland and Ever-
 green avenues.
 Pine Grove Cemetery, south of Netherland and east of
 Linnet avenues.
 Boynton road, Main street, nearly to Bedford line.
 Streets on Kidder land, near the reservoir.
 Numbering plans, ten sheets.

WORKING PLANS NOT RETAINED IN OFFICE.

- Park street, hose-house and cottage.
 Pine Grove Cemetery, landscape plat.

Soldiers' Monument, base for iron fence.

Pine Grove Cemetery, Col. Quimby's lot.

Merrimack square, sections of iron fence and gate-posts.

OLD PLANS COPIED.

Hall and Candia roads, lots of Robert Hall.

Lots bounded by Granite and Main streets, Manchester & North Weare Railroad and the river.

Milford street, Riddle land.

Harvey and Porter roads, proposed location.

High street, location of a portion. 2 plans.

Pearl street extension, Maple to Ashland street.

Amherst street extension, Hall to Highland street.

Main street extension, Granite to Bedford line.

Lots north of Webster street between River road and Union street.

Total miscellaneous plans, 48.

Total plans made, 103.

Although these plans have been made, the lettering and figures necessary to make them permanent records have not yet been put on; this will require some weeks' work the coming winter.

The sewer map in this office, and the sewer-book in the city clerk's office, have been brought up to January 1, 1881. The city clerk's record of new highways, in which sketches are made to accompany the records, has been brought to the same date. The two maps of Pine Grove Cemetery have been brought to January 1, 1882, as nearly as it is in my power to do so.

STREET NUMBERING.

The street numbering has been carefully looked over and brought to date. I found this, like many other things, badly

mixed : the plans and books had not been kept up to date ; many numbers had been assigned by letter-carriers and other unauthorized persons, and of course were wrong ; while in some places I found the old numbers in use previous to the adoption of the present system, still on.

GRADES.

The following grades have been established during the last two years, in accordance with the new ordinance : —

Auburn street, Franklin to Canal street	220 feet.
Appleton street, Elm to Union street	1,450 “
B street, A to C street	325 “
Belmont street, Hanover to Massabesic street	1,030 “
Clarke street, Elm to River road	450 “
Concord street, Beech to Ashland street	1,820 “
Elm street, Webster to Clarke street	1,250 “
Elm W. B. street, Bridge to Dean street	1,035 “
Fourth street, Walker to M. & N. W. R. R.	225 “
Olive street, Amherst to Concord street	340 “
Orange street, Oak to Linden street	870 “
Parker street, Main street to M. & N. W. R. R.	785 “
Prospect street, Linden to Derry old line	540 “
Spruce street, Wilson to old Falls road	1,050 “
Hazel street, Harrison to Brook street	430 “
Hanover south back street, Elm east back to Chestnut street	485 “
Hanover north back street, Elm east back to Chestnut street	485 “
Lowell street, Chestnut to Walnut street	1,130 “
Manchester street, Lincoln to Milton street	1,780 “
Massabesic street, Park to Belmont street	770 “
Milford street, Main to old Bedford road	2,260 “
Main street, Granite to McGregor street	2,250 “

Myrtle street, Oak to Derry old line . .	1,220 feet.
Sagamore street, Pine to Union street . .	492 “
Valley street, Elm to Massabesic street . .	7,635 “
Webster street, Elm to Union street . .	1,455 “
West Webster street, Elm to River road . .	750 “

Total grades established . . . 32,532 feet.
 No. of miles of grade established, 6.16.

NEW HIGHWAYS.

Highways laid out this year are as follows: —

Fourth street, from Walker south to N. W. R. R.

Webster street, from Union street to Smyth road.

Auburn street, from Union to Beech street.

Rowell street, from Elm street to River road.

Sagamore street, from Elm to Bay street.

Thayer street, from Elm street to River road.

Bay street, from Sagamore to Webster street.

Salmon street, from Elm to Chestnut street.

Gore street, from Union to Oak street.

Ash street, from Brook to Gore street.

Beech street, from Brook to Gore street.

Maple street, from Brook to Gore street.

Ray street, from Webster to Ray brook.

Street east of Geo. H. Hubbard's.

Wilson street, from Park street to Concord and Portsmouth Railroad.

Chestnut street, Webster to Clarke street, discontinued and relaid.

Orange street, from Russell to Linden street.

Boynton road, from Main street, south.

I desire to call attention to various streets upon which the city has expended large sums of money for sewers, sidewalks, grading, etc., although the streets are not public

highways. Second street is not a public highway from Granite to Ferry street, yet the street has been filled four feet, and grade damage paid. Ash and Beech streets are not public between Prospect and Brook streets. Maple street is private from Bridge to Brook ; so is Hall street south of Hanover, and Valley from Elm to Pine street. As these streets are practically public, and will soon become so from occupation, it is advisable for the city to take some action in regard to them, in order to preserve the records and guard against difficulties in the future.

MERE STONES.

There has been so much current work the past year that it has taken all the time of myself and assistants to keep it up, so that I have been unable to set any mere stones ; but the necessary data for all the new highways and a few of the old ones have been obtained, and are shown on the plans. The Amoskeag Company has set stones for the fair-ground streets. I have made a location of all the Company's street lines that I have found, in order to preserve the original.

NEW STREETS BUILT.

Valley street has been built twenty feet wide from Pine to Belmont street. It should have been built full width, and that will probably be called for soon. Massabesic street, from Park to Belmont, has been widened to fifty feet, grade raised two and one-half feet, culvert extended, cobble gutter put in on each side, and sidewalk with iron guard-rail on southwest side. Myrtle street, from Russell to Linden, has had a retaining-wall built on the north side, containing $112\frac{1}{2}$ perch, and the street graded about 42 feet in width. It will be necessary to build a retaining-wall on the south side, and grade out to 50 feet in width, whenever the Com-

pany's lots are sold. Elm street at the bridge has been widened, filled and graveled about 150 feet each way from the bridge. This street being the principal highway to the Pine Grove Cemetery, and a road over which the travel is increasing every year, it should be widened to its full width, graveled, and sidewalk built at an early day.

STREETS TO BE BUILT.

Hanover street at the J. P. Eaton place should be built on its proper line; for, when the abutters set their fences on the north line of the street as established, they will come about in the middle of the present traveled track. The abutters on the south side are occupying from six to forty feet of the street. It will probably be necessary to do something the coming year, as Mr. Paige will claim the land belonging to him. Spruce street, although laid out to the Hall road, has 900 feet at its east end fenced in and used as mowing. In Merrimack street at the east end, a house stands in the center of the street.

Your attention will be called this year to the extension of Lincoln street to Bridge street. This will eventually have to be done, and can be built cheaper now than at any future time. If extended at all, it should be in a straight line with the present street.

SEWERS BUILT.

STREETS.	LOCATION.	Material.	Size in inches.	Length in feet.
Elm	Harrison to Sagamore.....	Brick.	20 x 30	1196
Main (P.).....	Granite to Schuyler.....	"	17 x 26	1535
Sagamore... ..	Elm to Elm east back.....	Akron.	15	194
Salmon.....	Elm east back street to Bay.....	"	15	232
Elm east back.....	Sagamore to Salmon.....	"	15	365
Central south back.....	Elm east back to Chestnut.....	"	15	437
Central south back.....	Chestnut to Union.....	"	12	765
Elm east back.....	Salmon to near Webster.....	"	12	720
Pine and Pennacook n. back.	Pennacook south back to Union..	"	12	818
Prospect.....	Union to T. Dunlap's.....	"	12	1706
Walnut east back.....	Harrison to Brook.....	"	12	402
Spruce south back.....	Beech to Maple.....	"	12	525
Union east back.....	Harrison to Pennacook.....	"	12	763
Church and Bridge so. back	Lowell to Birch.....	"	12	250
Church and Bridge so. back	Lowell to Birch	"	10	262
Union east back.....	Harrison to Pennacook.....	"	10	62
Birch.....	Lowell to Washington.....	"	10	293
Bridge.....	Nashua to Russell.....	"	10	273
Center (P.).....	River to Third	"	10	438
Lowell	Maple to Jane.....	"	10	662
Lincoln.....	Central s. b. and Park to Park s. b.	"	10	285
Maple	Nashua to Pearl.....	"	10	1195
Maple	Concord to Lowell.....	"	10	310
Manchester.....	Lincoln to Wilson.....	"	10	607
Manchester.....	Wilson to Hall.....	"	10	444
Manchester.....	Hall to Belmont.....	"	10	370
Merrimack.....	Wilson, west.....	"	10	268
River (P.).....	Ferry to Center	"	10	621
River (P.).....	Ferry south to Railroad.....	"	10	640
Russell.....	Bridge to Pearl.....	"	10	428
Park south back.....	Pine to Union (140 feet relaid)...	"	10	663
Park south back.....	Pine to Union	"	8	48
				17,777

Total length of sewers, equal to 3.37 miles.

Manholes built, 17.

Catch-basins, 87.

SEWERS ORDERED BUT NOT BUILT.

STREETS.	LOCATION.	Material.	Size in inches.	Length in feet.
Main	Schuyler to McGregor.....	Brick.	17 x 26	961
Myrtle.....	Russell to Oak.....	Akron.	10	380
Russell.....	Pearl to Myrtle.....	"	10	633
Lowell.....	Jane to Ashland	"	10	499

The Nashua-street sewer has been overloaded, as a large area is being drained into it temporarily, until the proposed sewer through Bridge street is built. This should be done right away to relieve Nashua street. There is trouble with the Union and Amherst street sewer. If what I am told in regard to its construction at the junction of Hanover and Union street is true, a very little expense will remove the difficulty; this must be investigated early in the spring. We have met with the usual difficulties this year of finding sewers too high to make connections. A large part of the appropriation has been expended in rebuilding old sewers, as has been the case in years past. It was desired to drain two estates on Central south back street, and one on Park south back street near Union. This could only be done by commencing from Elm east back street and running up 1,200 feet, although there were sewers on all sides.

The management of our sewer system, if we can call it a system, is wrong from beginning to end. A man wants a sewer, so he gets a petition started, and, as it costs nothing to sign it, all the neighborhood put their names down, and talk about it, and the city government is impressed with the urgent necessity of the sewer, and naturally supposes that

the petitioners will contribute towards the expense by paying the usual connection fee of thirty cents per foot frontage; so the petition is granted, and from five hundred to one thousand dollars expended in the construction of the sewer; and then, when all is done, none will enter, the city gets no return, and the sewer lies idle. As an illustration of this, a very urgent petition was sent in for a sewer in Manchester street between Hall and Wilson streets; it was signed by all the abutters, there was a great panic in the neighborhood, and it was represented to the city government that they were all dying with diphtheria. The sewer was put in; but in the meantime the petitioners learned that they must pay fifteen or more dollars entrance fee before entering the sewer. This knowledge effectually cured their diphtheria, and there was no further call for sewers from them. To-day that 450 feet of pipe lies as dry and clean as it was the hour it was put in the trench, there being no connections, not even a catch-basin arm.

This method of assessing thirty cents per foot front should be abolished, and every abutter assessed a certain amount for every square foot of land drained, thus making the area the basis instead of the frontage, and then compel every man to connect his buildings with the sewer, there being, of course, no charge for the connection. Another way will be to retain the present frontage basis, but make the assessment upon every one alike, at the same time requiring them to use the sewer. This would be the present system under a new name; for, instead of charging one man for connecting his house with the sewer, we make an assessment upon all directly for the construction of the sewer.

Another difficulty with our sewers is the carelessness and inefficiency of the licensed sewer-enterers of years past. For a number of years there was trouble with the Elm-street sewer at Straw block; a careful investigation dis-

closed the fact that the pipe from Granite block was run entirely through the old Elm-street sewer and connected with the new, thus making a dam of about eighteen inches in the middle of the sewer. In another case, a six-inch pipe was found projecting six inches into a twelve-inch sewer. In nearly every case it is found that where Y's are not used the connecting pipes are not broken to fit the opening of the sewer, but are slid in so as to project from one to six inches into the sewer. These places form stops for the solid material, which, rapidly accumulating, soon completely blocks the sewer. This whole matter should be placed in the hands of a competent inspector appointed by the city, and it should be his business to see that all connections are properly made, and no licensed enterer, or any other, allowed to make connections without the inspector's being present and directing the work. The authority in the present system of sewerage is divided between the city clerk, superintendent of streets, and city engineer. The city clerk issues the licenses, but in regard to frontage he is obliged to rely upon the statement of the applicant, as he cannot run out to measure every time, and so is very liable to be imposed upon, and grant a license for too small a fee. This whole matter should be in the hands of one person, either the city engineer or a competent person connected with his department, thus relieving the city clerk, and leaving for the superintendent of streets only the actual manual labor of construction; for the reason that from the frequent changes to which we are accustomed here, we are liable to get a man for superintendent who is entirely unfamiliar with this subject. I would, therefore, like to recommend to the new committee on sewers that they give the subject careful consideration, and see if some arrangement cannot be made that will improve our sewerage, and be more beneficial for the city than the present.

It is also necessary that a large number of manholes should be built; many sewers have been connected directly with other sewers, and large areas covered with a network of sewers are without manholes. It is advisable that there should be either a manhole or a lamphole at every angle in a sewer; also, where there is an abrupt change of grade, to enable the superintendent to inspect the sewers, and cleanse the same whenever it becomes necessary. He often receives complaints that the city sewer is plugged up, and after several days' labor and great expense digging and trying to locate the trouble, it is found to be in the private drain, which belongs to the owner to repair. If the sewer had been properly constructed with manholes and lamp-holes, by dropping a lantern into the lamphole a man in the manhole could easily see if the sewer was clear; if clear, there would be no expense; if blocked, instead of spending several days to dig it up, it could be cleaned by means of a hose or other suitable flushing apparatus. A very fine arrangement for cleansing sewers has been introduced into New Haven by Mr. C. E. Fowler, city engineer, which he calls the "ball flushing," a description of which is given in his report for 1881. By this means the cost of cleansing sewers for the year 1881 was \$57.42 per mile. As many of our flat-grade sewers are not self-cleansing, an arrangement of this kind would be a very profitable investment for the city.

CATCH-BASINS.

There has been a great deal of talk, but not much work, in regard to improving our catch-basins. I can only call your attention to my report for 1881, and say that this is a matter which should be attended to at once.

BRIDGES.

The work of raising the east approach of McGregor bridge, which was commenced last fall, was completed ready for the railing March 9. Owing to the delay in getting the rail, and the repairs in progress on the Stark building, I have been unable to get the rail all in position until this month, and have not got it painted at all; this must be attended to at once to prevent rusting.

The Elm-street bridge across the railroad near the gas-works has been rebuilt this year, the Concord Railroad doing the wood-work and rebuilding a portion of the old abutment, which was unsafe, the city furnishing the new stone-work and grading the street. The driveway has been widened from $22\frac{1}{2}$ feet to 30 feet, and a sidewalk of $4\frac{1}{2}$ feet in width built on the east side; also, 344 feet of gas-pipe railing on the sides of the approaches.

BATH-HOUSES.

At the meeting of the city government in May, I was instructed to visit Boston, examine the bath-houses there, and present plans and estimate of cost for a similar bath-house here. My estimate was \$1,000. For particulars see my report at that time. I see by the report by the city engineer of New Haven, that a bath-house was built there by contract, with a tank 20 by 30 feet, and 5 feet deep, for \$447.

CEMETERIES.

At the Valley Cemetery, a cobble gutter has been paved along the northeasterly side of the avenue built across the brook last year. The grade of this avenue at the foot of the hill has been raised some four feet, requiring $1,002\frac{1}{4}$ cubic yards' filling. A new board fence has been built $1,023\frac{1}{2}$ feet in length, on the west side, and additional water-pipes put in.

The heavy shower about September 23 caused some serious damage, by washing out the water-pipe trenches and the new avenue.

At the Pine Grove Cemetery, the plat of ground that was laid out last year according to the Forest Hill or "Lawn" plan has been graded and nearly completed this year. The depression on the north side has been filled, requiring 2,000 cubic yards of sand. The entire surface of the plat has been covered to a depth of twelve inches with gravel, and nine inches with loam. There was a slight delay in the spring in removing the trees, and again in the summer when the drouth was at its height I deemed it advisable to suspend the work for a short time. Through these delays we were unable to sow any seed until late in the season ; about half of the plat was sown, but our first long rain coming on just after, a large part of the seed was washed out. It will be necessary to sow this over when the other half is sown in the spring. Although the plat is not yet completed, lots enough have been sold to more than cover the cost of building, so that the remainder can be considered as the fund for perpetual care. This work has required my constant attention this year. The grading was of such a nature that it was impossible to keep the stakes in place, necessitating the laying out, and relaying out of the work several times. Some changes were made in the paths after the work commenced, which required a new plan ; as now planned there will be 108 lots, of which 76 are staked out. Plans have been made for lots, and the ground cleared ready for grading in the spring, of the section bounded by Netherland, Woodside, Manchester, and Linnet avenues. It is proposed to lay out all the new lots in such a manner that they can be kept in lawn form, although the lots will not be graveled and top-dressed by the city ; nor the perpetual-care fund required, except on the plat graded this year.

Any lot in any part of the cemetery will receive perpetual care whenever the owner makes the required deposit. The water supply for this cemetery is not sufficient to keep a lawn in proper condition, and some action should be taken in regard to introducing city water at an early date. The cemetery has been much improved this year by graveling the avenues ; still greater improvement could be made by paving gutters, now that the city has plenty of cobble-stones in the gravel bank adjoining ; also by putting in a few catch-basins in the low places, connected with blind drains. to collect the surface water and allow it to soak away in the ground, instead of covering the lots and standing as it does now in the low lands.

A word in regard to the general arrangement of matters here. There are many duplicate names of avenues and paths that should be changed ; for example, Chessom avenue, Chessom path No. 1, and on to Chessom path No. 4 ; Myrtle path No. 1, Myrtle path No. 2, Water-pipe path, etc. The numbering of lots is also badly mixed. Previous to last year the map shows 1,158 lots, numbered from 1 to 1,908, with 34 half-numbers, leaving 784 numbers not in use. This should be straightened out as much as possible, the half-numbers abolished, and the surplus numbering utilized so that the highest number will tell the exact number of lots in the cemetery. This, I am aware, will be difficult, yet it can be done. There are many places in the cemetery where the lots have not been laid out to the surrounding avenues, leaving large areas that might be laid out and sold, thus keeping the grounds cleared up before commencing in a new section. The paths and avenues should have their names posted on suitable signs at the corners.

LANDS AND PUBLIC BUILDINGS.

I have made plans for an addition to the city stable, Vine street, 25 by 37 feet, of brick, which has been built, furnishing five new stalls with room for five more that can be built at any time ; plans for the stable of the Park-street hose-house, and ground plan for the cottage connected with it, also a plan for the cottage at the Massabesic hose-house, which was not adopted ; plan for all the improvements at the new city yard, between Depot and Granite streets, where there have been built 8 sheds 10 by $12\frac{1}{2}$ feet open front for the storage of sewer pipe, 10 open front sheds 9 by 20 feet for carts and sleds, and 3 closed sheds 10 by 20 feet for general storage. The stone-crusher has been set in permanent position on a solid stone foundation, a suitable building erected over it with rooms for engine, fuel, and a small office. A pit for receiving the crushed stone 50 by 35 feet, inclosed on three sides by a granite retaining-wall, and the bottom heavily concreted, has also been built ; curb has been set and concrete walk laid from Franklin to Canal back street on both Granite and Depot streets.

The total area of the land purchased is 44,656 feet, a portion of which, 100 feet deep extending from Depot to Granite street on Franklin, has been set apart as a wood-stand. The city scales have been removed to this lot, and more commodious quarters erected for the weigher, and suitable hitching-posts and railings erected for the accommodation of persons using the yard. The other more important buildings were in the hands of professional architects.

The amount of land purchased on Elm street, Bakersville, for the new school-house is $38,976\frac{1}{3}$ square feet.

The work in the various highway districts has been as follows : —

DISTRICT NO. 1.

MALACHI F. DODGE, SURVEYOR.

600 rods turnpiked at north end of the district.

26 water-bars built and repaired.

94 loads of gravel put on River road.

70 loads of gravel put on Elm street.

100 feet plank culvert 12 by 12 inches, at Mr. Powers's.

20 rods stone culvert 18 by 24 inches, at Industrial school.

The road has been widened and straightened at Industrial school.

Went over the district several times removing all the cobbles.

In a part of the above work Mr. Dodge has received liberal assistance from Mr. Ray, superintendent of State farm.

Our highways would be much improved, if more of the surveyors would follow Mr. Dodge's example and remove the cobbles from the roads.

DISTRICT NO. 2.

WARREN HARVEY, SUPERINTENDENT.

BLOCK PAVING.

Elm street, from south line of Prospect to

north line of Harrison 1,272.40 yards.

Canal street from Depot to Granite street . 482.70 "

Manchester street, between Chestnut and

Elm 293.33 "

Total block paving 2,048.43 yards.

Block paving was commenced on Manchester street west of Chestnut street, but not completed.

COBBLE PAVING.

Elm street, Prospect to Harrison street	. 814.8 sq. yds.
Canal street, Depot to Granite street	. 501.0 "
Depot street, Canal across Franklin street	. 979.4 "
Bridge street, Elm to west back street	. 66.7 "
Chestnut street, Merrimack to Hanover, gutters	376.0 "
Chestnut street, Lowell to Pearl street, gutters	582.2 "
Granite street, Franklin to Canal street, gutters	644.4 "
<hr/>	
Total cobble paving	. . . 3,964.5 "

MACADAMIZING.

Chestnut street, Merrimack to Hanover street	1,193.1 sq. yds.
Chestnut street, Lowell to Pearl street	. 2,276.4 "
Granite street, Franklin to Canal	. 1,290.7 "
<hr/>	
Total macadamizing	. . . 4,760.2 sq. yds.

On Granite street there was no material removed, but the top-crossing was as heavy as new work would have been, so I have classed it as such.

STREETS GRAVELED.

Clarke street, Elm street to River road	. . 416 feet.
Hazel street, Harrison to Brook street	. . 380 "
Salmon street, Canal to Elm street	. . 746 "
Lincoln street, Park to Spruce street	. . 220 "
Maple street, Park to Spruce street	. . 220 "
Spruce street, Maple to Lincoln street	. . 550 "

GRAVELED, AND GUTTERS CLEARED.

Manchester street, Chestnut to Beech street	. 1,350 feet.
Chestnut street, Merrimack to Central street	. 450 "
Laurel street, Chestnut to Union street	. 810 "
Lowell street, Walnut to Nashua street	. 720 "
Pine street, Hanover to Spruce street	. 1,556 "
Jane street, Lowell to East High street	. 370 "

GRADED AND GRAVELED.

Bridge street, Elm to Maple street	. . 2,555 feet.
Maple street, Lowell to Concord street	. . 270 "
Maple street, Bridge to Pearl street	. . 261 "
Arlington street, Maple, east	. . 200 "
Appleton street, Chestnut to Pine street	. . 362 "
Union street, Harrison to Brook street	. . 380 "

GRADED AND NOT GRAVELED.

Park street, Wilson to Massabesic street	. . 370 feet.
Beech street, Myrtle to Harrison street	. . 490 "
Olive street, partly graded, about	. . 200 "

 12,876 feet.

Equal to 2.44 miles.

All other main streets have been repaired and gutters cleared.

The following sidewalks have been filled where the filling averages from 3 to 4 feet:—

Pine street, Harrison to Brook, west side	. . 380 feet.
Brook street, Pine to Union, south side	. . 446 "
Maple street, Bridge to Pearl, east side	. . 275 "
Arlington, west end, both sides, 150 feet each	. 300 "
Pearl street, east of Maple	. . 150 "

Sagamore street, east of Pine, north side, 195 feet, south side 100 feet	295 feet.
Myrtle and Russell streets, at Dr. Dodge's	440 "
Amherst street, Olive to Beech back street	240 "
	<hr/>
	2,526 feet.

Sidewalks have been graded in all other places where concrete has been put in.

CROSSINGS.

Stone, 12. Concrete, new, 34. Top-dressed, 13.

CONCRETE.

Crossings, new	936.86 sq. yds.
Crossings, top-dressed	362.39 "
Sidewalks repaired	71.70 "
Sidewalks, city yard	388.84 "
City yard	265.60 "
Blood's shop	202.75 "
City hall	135.60 "
City library	27.50 "
Driveway, Henry Chandler's	94.50 "
	<hr/>
Total concrete	2,485.74 sq. yds.

SEWERS AND DRAINS.

Brick, 20 by 30	1,196 feet.
Akron, 15-inch	1,228 "
Akron, 12-inch	6,089 "
Akron, 10-inch	5,982 "
Akron, 8-inch	48 "
	<hr/>
	14,543 feet.

Equal to 2.75 miles.

Catch-basins, 61. Man-holes, 12. (See sewers.)

DISTRICT NO. 3.

EDWARD N. BAKER, SURVEYOR.

A new bridge on Elm street across the Lawrence Railroad has been built, and street widened. An iron rail of 344 feet, and a wooden one of 544 feet, put up. (See bridges.)

Calef road for 160 rods has been widened, turnpiked, and graveled, and an 18 by 30 inches stone culvert 35 feet long built.

Hancock street for 27 rods graveled, a cobble gutter paved 3 feet wide, and a stone culvert 18 by 30 inches built.

Nutt road partially repaired, but not sufficiently to meet the demands of the heavy travel over it.

Elm street, at the new school lot, has been widened to 100 feet by removing the sand bank on the west side.

All the roads of the district have been turnpiked twice, and repaired as well as possible under the circumstances.

The yards of Messrs. Rowell and Gilford, on the Calef road, have been graded to the grade of the street, and sidewalks made in front of them.

Smith's Ferry road turnpiked and partially fixed; there is still room for improvement. The sewer in the River road has also been cleared and repaired.

DISTRICT NO. 4.

C. C. WEBSTER, SURVEYOR.

Graded the road from Goffe's Falls to Litchfield town line. Graveled about 50 rods at the south end of the district, six inches deep. Repaired the Derry-hill road. Replanked the bridge at Goffe's Falls. One culvert 50 feet long of 12-inch Akron pipe, north of Whittemore's. Changed the road-bed and turnpiked about 12 rods at J. P. Moore's; and all general repairs.

DISTRICT NO. 5.

CHARLES A. PIERCE, SURVEYOR.

Graveled 1 mile.

Turnpiked one-fourth mile.

Culverts, 2.

Bridges replanked, 2.

Bushes cut, 2 miles.

Cobbles raked out and road patched where needed, over the entire 13 miles of the district.

DISTRICT NO. 6.

I. T. WEBSTER, SURVEYOR.

No report.

DISTRICT NO. 7.

HENRY S. HORTON, SURVEYOR.

Massabesic street, widened, graded, and graveled	700 feet.
Belmont street, graded and graveled	500 “
Jewett street, graveled	150 “
Taylor street, graveled	1,900 “
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Total	3,250 feet.

Massabesic street, culvert extended and wing walls built.

Massabesic street, gutters paved 570 yards.

Massabesic street, 15" drain pipe culvert 160 feet.

Massabesic street, iron railing 308 “

Massabesic street, wood railing 600 “

DISTRICT NO. 8.

JEREMIAH GARVIN, SURVEYOR.

Graveled 1 mile, turnpiked 1.5 miles.

General repairs and removing rocks from road, extended culvert and put railing on Proctor road, and cutting brush where needed.

This district has 10 miles of road, and the appropriation is about one-half what it should be to make roads suitable for the heavy teaming, and increasing amount of light travel to and from the various lake resorts and adjoining towns.

DISTRICT NO. 9.

J. J. GARMON, SURVEYOR.

Graveled $1\frac{1}{2}$ miles, built 4 new stone culverts, each $15' \times 2' \times 8''$, re-laid one $25' \times 3' \times 8''$, one with stone sides and wood cover, $20' \times 2' \times 2'$, besides general repairs. The bridge near the pumping station on the new road is dangerous, and should be protected with an iron rail of about 150 feet in length.

The bridge over the Cohas brook was repaired this year. It would have been better if it had not been touched; for the excavation having loosened the old crust of the road, the bridge and abutment have settled several inches, and the bridge is in worse condition than it was in the first place.

DISTRICT NO. 10.

FRED S. WORTHEN, SUPERINTENDENT.

Sewers, Main street, brick, 17×26	1,535 feet.
Sewers, River and Center streets, Akron, 10"	1,699 "
Total	3,234 feet.

General repairs of streets, where needed.

Concrete crossings, new	166.60 yards
Concrete crossings, top-dressed	17.00 "
Concrete sidewalks, new	60.53 "
Concrete sidewalks, top-dressed	119.73 "
Total concrete	363.86 yards

STREET.	GRADING.		CONCRETE.		PAVING.			Ret. wall. perches.	Catch-basin.
	lin. feet.	Center. yds.	S. walk. lin. feet.	Crossings.	Brow. lin. feet.	Gutter. lin. feet.	Center. yds.		
Bowman.....	....	444.00	....	....	...	....	....	....	....
Center.....	663.0	100.00	243	....	513	373	....	89	5
Clinton.....	170.0	....	170	....	170	170	....	....	....
Dover, Douglas, and West sts...	300.0	....	300	1	240	173	....	....	....
Dover.....	125.0	....	125	1	125	125	....	....	....
Ferry.....	....	....	....	....	....	....	....	....	1
Fourth.....	111.0	....	111	1	111	111	...	....	....
Granite.....	122.0	....	122	2	122	122	267	....	....
Green.....	205.0	....	...	....	....	....	....	....	....
Main.....	145.0	370.40	125	..	145	....	....	....	7
Milford.....	2,250.0	441.00	....	....	....	....	....	....	5
Parker.....	180.0	426.00	80	....	280	280	....	12	2
River.....	....	....	....	....	....	....	....	....	5
Second.....	293.5	3,585.00	....	....	100	....	....	....	....
Walker.....	109.0	....	100	1	100	100	....	....	1
West.....	684.0	462.25	644	2	744	220	....	....	...
Winter.....	112.0	....	112	....	112	112	....	...	....
Main st. school..	....	125.00	....	....	....	....	....	....	....
	5,460.5	5,953.65	2,132= 1,421.3 sq. yds.	8	2,762= 614 sq. yds.	1,786= 595.3 sq. yds.	267	101	26

DISTRICT NO. 11.

JAMES E. BAILEY, SURVEYOR.

Macadamizing 2,752 square yards
 Gutter paving 125 "
 Sidewalk grading 400 cubic yards
 Cobble edgestone 700 feet
 Black-brook bridge replanked 20' × 30'

430 feet posts and rails at Farmer's meadow.

1 catch-basin north side of Bridge street, 100 feet of concrete.

DISTRICT NO. 12.

FREDERICK ALLEN, SURVEYOR.

General repairs carefully attended to.

DISTRICT NO. 13.

JOSEPH P. FELLOWS, SURVEYOR.

There are but two miles in this district, of which one and one-fourth miles have been graveled and top-dressed with stone chips, and general repairs on the remainder.

GENERAL REMARKS.

Last year I stated in my report that Manchester was following in the footsteps, yet a long ways in the rear, of older cities. In proof of the statement, allow me to copy a few extracts from a letter I received from Mr. Charles E. Fowler, city engineer of New Haven, Conn., to whom I sent one of my reports in return for one previously received from him.

“ OFFICE OF BOARD OF PUBLIC WORKS, }
NEW HAVEN, CONN., April 7, 1882. {

“ *George H. Allen, City Civil Engineer, Manchester, N. H.:*

“ DEAR SIR, — I acknowledge the receipt, with thanks, of a copy of your report for 1881.

“ I have read the report over with considerable interest, and judging by it I should think that your city was in a bad way concerning its public work. What I mean by that is, that there appears to be a serious lack of system in the construction of works and the keeping of a proper record of them. Unless your suggestions are heeded by the city

government, the citizens will have occasion to regret the neglect at no distant time in the future. *It is a miserable way of doing public work, piecemeal.* A perfect system of what is *best* should be adopted in the case of sewerage, paving, grades, etc., and then all work carried out in strict compliance thereto. Our city has suffered largely from a lack of system, but it turned over a new leaf about ten years ago, to its very great advantage.

“ We now have the *reputation* of having one of the best sewerage systems in this country: our streets are in good condition, excellent pavements, and, according to the National Board of Health, we have the *smallest death rate* of any seaport city of our size *in the world*; and this is due very largely to the system of sewerage and other improvements, and the manner in which they are executed and maintained. * * * * * * * *

“ Somewhat in reference to two points in your report I may say, that our circular curb corners are cut with a radius of 6 feet; sometimes where the angle is acute we use a radius of 12, 15, or 18 feet. The traps of our catch-basins provide for a water-seal of 14 inches in depth, which gives considerable margin for evaporation.

“ Respectfully yours,

CHARLES E. FOWLER,
City Engineer.”

I hope Mr. Fowler will pardon the liberty I have taken with his letter, being, as he is, an entire stranger to me, but his remarks bear so closely upon the condition of affairs here that I could not refrain from giving it to the public.

But little improvement has been made this year in regard to the grading and graveling of streets. In looking over the streets I find some have been raised two feet or more above the sidewalks and crossings. On Manchester street a

crossing nearly as good as new, and at the proper grade, was raised about one foot to fit the center of the street, which had been filled too high, instead of putting the surface where it ought to be. When the street is properly graded this will have to be relaid where it was before, and before that time, as the street wears away, the danger from the too high crossing will be even greater than it was previously from being too low. A change of grade on Park street three years ago made it necessary to cut that portion from Wilson to Massabesic street. This is still one foot too high.

SIDEWALKS.

I can only repeat that the city should take the laying of sidewalks into its own hands, as the General Laws give it the right to do so, and charge one-half the expense to the abutters. Section 4 of chapter 15 of the Revised Ordinances should be changed. It now reads, "All sidewalks in Elm street in the city shall be laid sixteen feet wide, and on all other streets, eight feet wide; and the inclination from the outer edge thereof shall not exceed one-half an inch to the foot."

As our streets vary from twenty to sixty feet in width, a glance will show the absurdity of the above inflexible rule. For example, put two eight-foot sidewalks in a twenty-foot street, and four feet will be left. There should be uniformity in the construction of all streets; it should not be obtained by making all sidewalks of the same width, but by making them proportional to the width of the street. I should amend Sect. 4 by striking out all between the words "sidewalk" and "inclination," and inserting, "in the city shall be one-sixth the width of the street." This will make our walks on Elm street 16 feet, and on 50-foot streets 8 feet, on 20-foot streets 3 feet, as now built; 40-foot streets will be 7 feet, and 60-foot streets, 10 feet. The

sidewalk on the south side of Bridge street between Canal and Elm streets, should be rebuilt and brought out to its proper width to correspond with the new bridge and the walks on the north side. I think if the city government should lay the case before the Stark corporation, they would not hesitate to build a new and suitable walk.

PAVING.

This work can be greatly improved, and the paving wear much smoother, if greater care is taken with the work. The parties employed by the city being old men, who have done the work for years, I find it hard to teach them new ideas. The main things to observe are: first, a more careful selection of the stone; second, more care in the mauling of them. If a stone is loose and has a tendency to settle lower than the surrounding ones, take it out and put sand under it sufficient to bring it even with the rest, when driven solidly to place, instead of driving the rest solid, and skipping that particular stone; then the covering should be good screened gravel, so that it will pack closely and solidly between the stones. The use of coarse gravel, with pebbles as large as the end of a man's finger dropping in between the stones, effectually prevents a solid packing, and the continual jar upon the pavement, wearing away the pebbles, causes the blocks to tip and settle, soon leaving us the rough and uneven pavement which we now have.

MACADAMIZING.

We have streets filled with broken stone, but nowhere else will you find a macadamized street covered with large, sharp-broken stone lying around loose, forming convenient missiles for school-boys, and others of a belligerent disposition. In Boston, when a street is macadamized, it is as smooth as a concrete pavement: the reason is, because

they use graduated sizes of stone and roll it more. In regard to rolling, I can but repeat what I said last year. The only expense we need to go to for the assorted stone, now that the crusher is permanently located and has every convenience for working, is to get a revolving screen and attach to the crusher, this screen to be made so as to separate the stone into four different sizes; then by finishing with the fine stone, and finally covering the whole with a thin sprinkling of stone dust, you will have a road hard and smooth, and free from the unsightly and dangerous missiles which we now see lying around.

In conclusion, I must say that the small force in the office in 1881 left me, at the end of the year, a long ways behind with my work. I was obliged to do just as little field and office work on any particular job as I could get along with for the immediate work on hand. I expected to be able to catch up a little with the office work in the winter; but the current work, such as raising the McGregor bridge trestle, preparing for the Elm-street bridge, and straightening out the street numbering, made that impossible. This winter finds me with the office work nearly two years behind. I have succeeded in finishing the field work left over from 1881, with the exception of one survey on Wilson Hill, which was called for first eight years ago, was commenced last year, and must be completed next spring. I shall be obliged to keep my entire force busy all winter, and even then shall have hardly time to finish my office work before spring opens.

The increased expenditure for this year is caused in part by having an extra assistant, and in part by extra horse-hire on account of the Pine Grove Cemetery work.

Respectfully submitted.

GEORGE H. ALLEN,
City Engineer.

REPORT
OF THE
CITY PHYSICIAN.

REPORT

OF THE

CITY PHYSICIAN.

To the Honorable Mayor and the City Councils : —

In presenting my report for the year just closed, I must congratulate the city on its excellent sanitary condition. The general health of the city during the year has been remarkably good. Typhoid fever has been prevalent, but diphtheria has been the exception rather than the rule. During the summer, a slight epidemic occurred among the infant children of the poorer classes, principally those of French Canadian parents, who either preferred to dispense with medical advice, or were too poor to employ a physician.

Scarlet fever was more prevalent this year than last, but the type was of a milder character. The cause of the fever in almost every case could be traced to a lack of proper precaution in the public schools. There are no cases at present.

The small-pox scare in January and February caused considerable excitement ; but the prompt measures taken in anticipation of its appearance undoubtedly prevented a visit of the terrible scourge. Other cities and towns in the state had cases, but owing to the thoroughness with which vaccination was performed in Manchester, the city did not have a single case.

In my capacity as city physician I personally vaccinated about 1,500 persons, principally school children, while physicians employed by the various corporations vaccinated such of the operatives as had not undergone the operation for a number of years. It is probable that at least 10,000 persons were vaccinated in Manchester during the excitement.

Quite frequently a report was current that a case of small-pox had occurred, but upon personal investigation it invariably proved to be a case of another disease. That the work of vaccination was thoroughly performed is evident from the fact that Manchester did not have a single case of the dread disease. The health of the city paupers, both at the farm and outside, during the year has been good, although more sickness has occurred this year than last. I have personally visited between 150 and 200 of the city poor, and given medical advice. The number of deaths at the city farm was five, being either persons who were of advanced age, or suffering from an incurable disease which had been contracted before admission to the farm. The treatment of the poor by Superintendent Allen and wife has been kind and efficient, and the inmates could not have had better care than they have received. The plan of providing for the insane at the city farm, under the present arrangement, is decidedly a failure. Owing to the lack of a proper place for the separation of the mild and violent cases, all of the insane are obliged to mingle, much to the detriment of their health, and giving no opportunity for the treatment of their mental disorders, while their noise and tumult seriously affect the health and comfort of the inmates who are in the other departments. Three cases have been sent from the city farm to the asylum at Concord, where all have died. I would recommend that a separate building be erected for the accommodation of the insane, to

be divided into suitable wards, and that proper amusements be furnished. In my last report I recommended that better accommodations be provided at the police station for such unfortunates as might, through accident or indiscretion, come under the care of the officers. Since then a padded cell has been fitted up, and an ambulance provided, supplying wants which had long been needed. Regarding the ambulance, I would recommend that it be kept at the engine-house, or some other convenient place, where the expense of keeping would be small, and where it would be ready at a moment's call.

I would also recommend that an appropriation be made which would secure to the city the privilege of having a single bed at the hospital of the Women's Aid Society. Under the present arrangements, a permit must first be obtained from the society before a patient can be admitted to the hospital. This, in a case of accident or casualty, often causes a delay which imperils a patient's life. A good illustration may be seen by recalling the fire in Crosby's block, where persons jumped from five-story windows at midnight, and were picked up unconscious and with broken limbs, to be carried hither and thither, increasing their suffering and putting their lives in jeopardy. I therefore recommend that the city not only secure a private bed at the Women's Aid Hospital, but also that an arrangement be made so that a patient can be admitted at once, without first experiencing delay in obtaining a permit.

I have the honor to be,

Very respectfully yours,

JAS. M. COLLITY,
City Physician.

REPORT
OF THE
SCHOOL COMMITTEE.

SCHOOL DEPARTMENT.

ORGANIZATION FOR 1880.

SCHOOL COMMITTEE.

HORACE B. PUTNAM, Mayor, *ex-officio* Chairman.

WILLIAM J. HOYT,

President of the Common Council, *ex officio*.

Ward 1. — Charles F. Everett, 54 Stark corporation.

Frank T. E. Richardson, 49 M. S. B.

Ward 2. — Benjamin C. Dean, Myrtle street, cor. Ash.

Gerherdus L. Demarest, 54 Blodget street.

Ward 3. — Daniel Clark,* Lowell street, cor. Pine.

William A. Webster, 581 Union street.

Ward 4. — Walter M. Parker, Hanover, cor. Chestnut.

John T. Fanning, 360 Manchester street.

Ward 5. — Denis F. O'Connor, 173 Central street.

Charles A. O'Connor, Chandler House.

Ward 6. — Abial C. Flanders, 308 Park street.

Brackett B. Weeks, 382 Central street.

Ward 7. — Marshall P. Hall, 54 Amoskeag corp.

Ezra Huntington, 13 M. P. W. corporation.

Ward 8. — Louis E. Phelps, 220 Granite street (P.).

Douglas Mitchell, 220 Granite street (P.).

* Resigned, and Henry H. Huse was elected to fill the vacancy.

CLERK OF SCHOOL COMMITTEE.

MARSHALL P. HALL.

SUPERINTENDENT OF PUBLIC INSTRUCTION.

WILLIAM E. BUCK.

STANDING COMMITTEES.

Finance. — The Mayor, Messrs. Huntington, Hoyt, Fanning, Hall, Parker, Mitchell.

Salaries. — Messrs. Phelps, Clark, Webster, Weeks, Huntington.

Repairs, Furniture, and Supplies. — Messrs. Flanders, Dean, Fanning, D. F. O'Connor, Parker.

Fuel and Heating. — Messrs. Huntington, the Mayor, Fanning, Flanders, Phelps, Clark, Hoyt.

Examination of Teachers. — Messrs. Webster, Clark, Parker, Dean, C. A. O'Connor.

Text-Books, Apparatus, and Studies. — Messrs. Dean, C. A. O'Connor, Weeks, Demarest, Clark.

Music. — Messrs. Richardson, D. F. O'Connor, Weeks, Flanders, Mitchell.

Drawing. — Messrs. Hall, Mitchell, Demarest, Phelps, Fanning.

Attendance. — Messrs. Mitchell, Webster, Everett, Richardson, Demarest.

Sanitary. — Messrs. Webster, Clark, Dean, Demarest, Fanning.

SUB-COMMITTEES.

High School. — Messrs. Clark, Dean, Parker, C. A. O'Connor, Hall, Webster, Demarest.

Ash Street. — Messrs. Dean, Webster, Demarest, Phelps, C. A. O'Connor.

Lincoln Street. — Messrs. Demarest, Flanders, Weeks, Fanning, Clark.

Spring Street. — Messrs. Everett, Parker, Flanders, Huntington, Demarest.

Franklin Street and Training School. — Messrs. Huntington, Hall, Phelps, Clark, Richardson.

Lowell Street. — Messrs. Webster, C. A. O'Connor, Mitchell, Everett, Fanning.

Manchester Street. — Messrs. C. A. O'Connor, Weeks, Dean, D. F. O'Connor, Everett.

Wilson Hill and Bridge Street. — Messrs. Parker, Fanning, Weeks, Phelps, Flanders.

Merrimack Street. — Messrs. Hall, Clark, Dean, Huntington, D. F. O'Connor.

Beech Street. — Messrs. Webster, D. F. O'Connor, Richardson, Hall, Mitchell.

Piscataquog Grammar. — Messrs. Phelps, Mitchell, D. F. O'Connor, Weeks, Huntington.

Center Street and South Main Street. — Messrs. Mitchell, Phelps, Demarest, Flanders, Fanning.

Amoskeag, Blodget Street, and Stark District. — Messrs. Richardson, Everett, Parker, Mitchell, Dean.

Bakersville and Hallsville. — Messrs. Flanders, Hall, Webster, C. A. O'Connor, Phelps.

Goffe's Falls and Harvey District. — Messrs. Weeks, Clark, D. F. O'Connor, Fanning, Richardson.

Mosquito Pond, Webster's Mills, and Youngsville. — Messrs. Fanning, Richardson, Everett, Parker, Webster.

Evening Schools. — Messrs. D. F. O'Connor, Huntington, Flanders, Demarest, Hall.

IN BOARD OF SCHOOL COMMITTEE,
January 1, 1883.

It was *Voted*, that the report of the Clerk be accepted and adopted as the report of the Board, and that the same be transmitted to the City Councils, together with that of the Superintendent.

A true copy of the record,

Attest :

MARSHALL P. HALL, *Clerk*.

REPORT

OF THE

SCHOOL COMMITTEE.

To the City Councils: —

GENTLEMEN, — The Board of School Committee respectfully present their report for the year ending December 31, 1882, under the following heads: Statistical Information, Finances, Improvement and Extension of School Accommodations, Attendance and Truancy, Condition of Schools, Teachers.

STATISTICS.

I.

Population of the city (U. S. census of 1880)	32,458
“ estimated for 1882	37,000
School population (census of 1880), 5 to 15 years	5,460
Number days in school year	195
Number days schools were taught	182
Number of school buildings	24
Number of school-rooms	81
Number of sittings for pupils	3,645

II.

Number of male teachers in High School . .	2
Number of female teachers in High School .	4

Number of male teachers in grammar schools .	4
Number of female teachers in grammar schools .	12
Number of female teachers in primary schools .	45
Number of female teachers in suburban schools .	11
Total	<hr/> 78
Total enrollment of pupils	4,095
Average number of pupils belonging to schools .	2,957
Average daily attendance	2,712
Percentage of attendance	91.7
Average enrollment per teacher	52.5
Average daily attendance per teacher	35.0
Number of non-resident pupils in attendance: —	
In High School	6
In grammar schools	11
In primary schools	0
In suburban schools	8
Rates of tuition paid by non-resident pupils per week: —	
In High School	\$0.62½
In grammar and lower grades . . . . .	.50
In suburban . . . . .	.25
Number of pupils graduated from grammar schools .	72
Number of pupils admitted to High School: —	
From grammar schools	53
From suburban schools	4
Number of pupils graduated from High School .	53
Average number of teachers employed in evening schools:	
Spring street (males 1, females 9) .	10
Center street (males 1, females 3) .	4
Average attendance in evening schools since Oct. 1, 1882:	
Spring street (boys 67, girls 43)	110
Center street (boys 24, girls 30)	54

Oldest male pupil, Spring street . . .	40 years.
Oldest male pupil, Center street . . .	35 years.
Youngest male pupil, Spring street . . .	14 years.
Youngest male pupil, Center street . . .	16 years.
Oldest female pupil, Spring street . . .	25 years.
Oldest female pupil, Center street . . .	32 years.
Youngest female pupil, Spring street . . .	12 years.
Youngest female pupil, Center street . . .	14 years.

Nationality of pupils in evening schools : —

Americans (Spring st.), 81	(Center st.), 32	Total 113
Swedes “ 62	“ 0	“ 62
French “ 71	“ 44	“ 115
Germans “ 9	“ 25	“ 34
Irish “ 93	“ 25	“ 118
Scotch “ 0	“ 2	“ 2

Number unable to read or write on entering evening schools : —

Spring street	6
Center street	5

III.

Salary paid Superintendent	\$1,500
clerk of School Committee	\$100
School Committee (18 members, at \$10 each)	\$180
High-School principal	\$2,000
male assistant	\$1,200
female assistants	\$500—\$800
grammar-school principals	\$1,000—\$1,350
assistants	\$460—\$475
primary-school teachers, female	\$350—\$450
Training-School principal	\$1,000
sub-teachers, per mo.	\$10—\$20
suburban-school teachers, female	\$300—\$475

FINANCES.

INCOME.

Balances from 1881	\$2,758 96
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Appropriations, 1882: —

For books and stationery	.	.	\$500 00
contingent expenses	.	.	500 00
care of rooms .	.	.	2,600 00
fuel . . . . .	.	.	3,000 00
furniture and supplies	.	.	500 00
printing and advertising	.	.	500 00
repairs . . . . .	.	.	3,000 00
salaries . . . . .	.	.	39,000 00
			<hr/>
			\$49,600 00
evening schools	1,000 00
			<hr/>
			\$50,600 00

\$53,358 96

Special appropriation for Spring st. repairs	.	2,500 00
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\$55,858 96

Overdrafts, 1881	471 27
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Net amount from appropriations	.	\$55,387 68
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From state literary fund	.	2,059 88
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tuition non-resident pupils	.	207 37
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Total income 1882	57,654 94
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EXPENDITURES. — DAY SCHOOLS.

For books and stationery	.	.	\$515 42
care of rooms	2,574 33
contingent expenses	.	.	959 95
fuel . . . . .	.	.	3,090 75

For furniture and supplies	\$1,111 53
printing and advertising	462 56
repairs (ordinary)	1,709 16
salaries of teachers	39,755 69
<hr/>	
Total expense of day schools . .	\$50,189 39
Total expense of evening schools . .	1,414 92
<hr/>	
Expended by School Committee for ordinary expenses of schools . .	\$51,604 31
Expended by School Committee for extraordinary repairs	4,187 85
<hr/>	
Total expended by School Committee .	\$55,792 16
Balance unexpended	1,862 78
<hr/>	
Amount expended by city councils for Webster-street house	\$10,500 00
Amount expended by city councils for Bakersville house	2,500 00
Amount expended by city councils for No. Main-street house	4,800 00
Cost for teaching per pupil in day schools, based on average number belonging	13 44
Cost of incidentals per pupil	3 53
Total cost per scholar	16 97
Total cost of scholar, based on whole number enrolled	12 25
Taxable property of the city	\$19,175,408 00
Tax for school purposes	2 $\frac{7}{10}$ mills

The total cost of the schools is about \$500 less than last year. The total cost per scholar is \$0.78 less.

The following list of the text-books used in each grade of our schools, with the retail price of each annexed, will be found useful to parents:—

COST OF SCHOOL BOOKS.

LOWER PRIMARY.

FIRST YEAR AND A HALF.

Slate.....	\$0.25	
Franklin 1st Reader .....	.25	
	—	\$0.50

HIGHER PRIMARY.

SECOND YEAR AND A HALF.

Franklin 2d Reader.....	\$0.35	
Robinson's (Fish) First Book in Arithmetic.....	.35	
3 Drawing B'ks (Smith's) (1 each six months)....	.36	
	—	\$1.06

LOWER MIDDLE.

FOURTH YEAR.

Franklin 3d Reader.....	\$0.50	
Harrington's Speller.....	.25	
Guyot's Elementary Geography .....	.65	
2 Penmanship Copy B'ks, Nos. 2, 2 1-2.....	.18	
2 Drawing-books, Nos. 3 and 4.....	.24	
Intermediate Music Reader.....	.60	
	—	\$2.42

HIGHER MIDDLE.

FIFTH YEAR.

Franklin 4th Reader.....	\$0.60	
Franklin Written Arithmetic	1.00	
2 Writing-books, Nos. 3 and 4.....	.18	
2 Drawing-books, Nos. 5 and 6.....	.32	
	—	\$1.20
Total cost of books to reach Grammar school		\$5.18

FOURTH DIVISION.—GRAMMAR.

Franklin Intermediate Reader.....	\$0.65	
Guyot's New Intermediate Geography.....	1.20	
Barnes's U. S. History ..	1.20	
Language Primer.....	.40	
2 Writing-books, No. 3 (full course) .....	.24	
2 Drawing-books, Nos. 7 and 8.....	.40	
	—	\$4.09

THIRD DIVISION.—GRAMMAR.

Swinton's New Language Lessons.....	\$0.50	
2 Writing-books, No. 4..	.24	
2 Drawing-books, Nos. 9 and 10.....	.40	
	—	\$1.14

SECOND DIVISION.—GRAMMAR.

Franklin 5th Reader.....	\$1.10	
2 Writing-books, Nos. 5 and 6.....	.24	
2 Drawing-books, Nos. 12 and 13.....	.40	
Fourth Music Reader ....	.90	
	—	\$2.64

FIRST DIVISION.—GRAMMAR.

2 Writing-books, No. 7 or 10	\$0.24	
2 Drawing-books, Nos. 12 and 13.....	.40	
	—	\$0.64
Total cost of books for Grammar-school course		\$8.51

HIGH SCHOOL.

English and French Course.

FIRST YEAR.

Algebra, Bradbury's	\$1.15	
Physiology, Dalton's....	1.25	
Physical Geography, Guyot's	1.80	
Book-keeping, Meservy's	.95	
Book-keeping (blanks)...	.90	
Book-keeping, Double Entry .....	.90	
	—	\$6.95

SECOND YEAR.

Geometry, Bradbury's...	\$0.85	
Physics, Avery's.....	1.40	
Civil Government, Andrews's.....	1.20	
Ancient History, Thalhimer's	1.85	
Modern History, Swinton's.....	1.60	
Zoology, Hooker's.....	1.20	
	—	\$8.10
Total cost for Business course.....		\$15.05

THIRD YEAR.

Chemistry, Avery's.....	\$1.40	
French, Duffett's method	1.35	
English History, Green's	1.75	
Botany, Wood's.....	2.00	
	—	\$6.50

FOURTH YEAR.

Rhetoric, Hill's	\$1.40	
Astronomy, Lockyer's...	1.40	
American and English Literature.....	1.50	
Geology, Dana's	1.30	
English Literature, Collier's.....	1.50	
Political Economy, Champlin's	1.00	
	—	\$8.10
Total cost for English and French course...		\$29.65

HIGH SCHOOL.

Classical Course.

FIRST YEAR.

Algebra, Bradbury's	\$1.15	
Latin Grammar, Allen and Greenough's.....	1.40	
Latin Lessons, Jones's...	1.00	
Physiology, Dalton's....	1.25	
Physical Geography, Guyot's.....	1.80	
	—	\$6.60

SECOND YEAR.

Geometry, Bradbury's...	\$0.85	
Physics, Avery's.....	1.40	
Cæsar and Cicero.....	1.60	
Latin Composition, Jones's	1.00	
Zoology, Hooker's.....	1.20	
	—	\$6.05

THIRD YEAR.

History of Greece, Smith's	\$1.20	
French, Duffett's method.	1.35	
History of Rome.....	1.20	
English History, Green's	1.75	
Virgil, Searing's	1.85	
or Greenough's, \$1.50		
	—	\$7.35

Cost, if Chemistry is taken in place of History (Avery's Chemistry, \$1.40) \$4.60

FOURTH YEAR.

Rhetoric, Hill's	\$1.40	
American and English Literature	1.50	
English Literature, Collier's	1.50	
Horace, Chase and Stuart's.....	1.35	
	—	\$5.75

Total cost for Classical course	\$25.75
or.....	\$23.00

HIGH SCHOOL.

College Preparatory Course.

FIRST YEAR.

Same as Classical course.	\$6.60
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SECOND YEAR.

Geometry, Bradbury's...	\$0.85
Cæsar and Cicero.....	1.60
Latin Composition, Jones's	1.00
Greek Grammar, Goodwin's	1.70
Greek Lesson's, White's.	1.35
Ancient Geography, Mitchell's	1.20
	— \$7.70

THIRD YEAR.

History of Greece, Smith's	\$1.20
Virgil, Searing's.....	1.85
or Greenough's, \$1.50.	
Anabasis, Goodwin's Reader.....	1.70
Greek Prose Composition.	1.00
History of Rome, Leighton's	1.20
English History, Green's.	1.75
	— \$8.70

FOURTH YEAR.

Homer, Iliad, Sedgwick and Keep's	\$1.30
Algebra, Wentworth's...	1.60
Horace, Chase and Stewart's.....	1.35
Geometry, Wentworth's..	1.20
	— 5.45

Total cost for College course	\$28.45
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RECAPITULATION.

Cost for Primary and Middle schools.....	\$5.18
Cost for Grammar schools.....	8.51

Total to reach High school ..	\$13.69
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COST FOR HIGH SCHOOL.

Business course (same as first two years in English and French course).....	\$15.05
English and French course....	29.65
Classical course	\$23.00 or 25.75
College course	28.45
(Optional), Drawing books,	
“ “ material,	
“ Music Reader.....	1.15

IMPROVEMENT AND EXTENSION OF SCHOOL ACCOMMODATIONS.

There are now nine school-rooms vacant, as follows : One on Bridge street, one on Lowell street, two on Manchester street, two on Beech street, one on Spring street, one on Lincoln street, and one at Wilson Hill. The three last named have been unoccupied for a considerable time ; the others have been vacated this year, — that on Bridge street by the transfer of pupils incident to the opening of the new house on Webster street, and those on Lowell street, Manchester street, and Beech street, by the withdrawal of French children. Four new rooms have been opened, — two on Webster street, and two in 'Squog, — leaving two more unoccupied rooms than at the beginning of the year.

In addition to the building of the Webster-street house, the extension to the brick house on Main street, and the foundation for the new house at Bakersville, all of which were provided for by special appropriation, and done under the superintendence of a committee from the city councils, the School Committee have conducted extensive repairs and improvements upon the older buildings. By a remarkable similarity, not to say stupidity, of architectural design, three of the larger school-houses were built with the rooms for the children in the rear, and the airiest and sunniest parts of the buildings were given up to stairs and entries. With the belief that light and air are indispensable to the school-room, the committee have set about remodeling these buildings. The Lowell-street house was changed last year, as described in the last report. This year the Spring-street house has been similarly altered and improved. The stairways have been set to one side, and two school-rooms brought out into the light and air on the south side of the building. The same thing ought to be done with the Franklin-street house. The best part of that

building, the whole west front, facing an open square, and during the better part of the day receiving unobstructed light and sunshine, is used for clothes-rooms. Four rooms in the building have no direct sunlight. By slight changes in the interior arrangements, two well lighted rooms may be added to this building, and the whole improved in convenience, lighting, and ventilation.

So rapid has been the increase of population on the west side of the river, that the extension to the Main-street house is insufficient to accommodate the pupils. Another room is already needed, and the committee recommend the erection of another wing to the same building the coming season. The large number of buildings erected west of McGregor bridge indicates that a school building will be needed in that vicinity, and it would be wise to secure a lot there at no distant day.

In addition to the alterations in the Spring-street house already mentioned, the whole basement has been excavated and new steam-heating apparatus put in. Steam-heating apparatus has also been placed in the North-Main-street house. The Lincoln-street house and fence have been painted, the Ash-street house painted outside, water introduced on the upper floors at Franklin street, the re-seating of the lecture-room at the High School completed, and a new well dug at the Harvey-District house. Every school building owned by the city has received some needed repairs, and all are now in excellent condition. The estimated amount expended upon each house is shown below :

Spring-street, alterations	\$3,565 91
Spring-street, new boiler, steam and water piping	615 82
Lincoln-street	396 89
Ash-street	251 71
Franklin-street	130 62

High School	\$164 16
Harvey District	154 78
South-Main-street	54 61
North-Main-street	85 24
Center-street	41 52
Amoskeag	39 74
Blodget-street	34 50
Lowell-street	41 50
Manchester-street	39 18
Merrimack-street	41 18
Beech-street	34 15
Wilson Hill	28 74
Stark District	28 31
Youngsville	37 84
Bakersville	34 15
Webster's Mills	26 74
Goffe's Falls	42 60

All of these repairs, excepting those at Spring street, have been done within the original appropriations, under the close inspection of the committee on repairs, and, as they believe, with great economy.

ATTENDANCE AND TRUANCY.

It appears by the Truant Officer's report that 642 cases of absence have been reported to him by teachers, — 333 from city schools, and 309 from parochial schools. Of these, 98 returned without the officer's services. To investigate the remaining cases, he made 914 visits to parents : 66 absentees were found sick ; 39 were without suitable clothing, and were excused for a time ; and 579 were sent to school. He has found 408 persons of school age upon the streets during school hours, and has placed in the schools 265 not enrolled in any school. Forty-one ha-

bitual truants were temporarily confined at the city hall, some for a few hours, and a few over night, with the knowledge of their parents. Of the apparently incorrigible cases, 7 were brought before the court; 5 were fined, 2 were sent to the State Industrial School, and 2 left the state. The officer has granted 681 certificates to children to obtain work in the mills. The average age of those certificated is 13 years. Sixty-two applicants for certificates could neither read nor write; 47 of these were of French parentage. The number reported discharged from the mills is 381, of whom 72 per cent entered parochial schools. About 50 per cent of all cases of absence reported to the officer from city schools were of Irish or French parentage.

The number of pupils enrolled in private schools in the city is about 3,200. The average attendance is as follows:

In Irish parochial schools	.	.	.	.	.	1,475
In French parochial schools	.	.	.	.	.	555
In French private schools	.	.	.	.	.	102
In American private schools	.	.	.	.	.	46
Total	.	.	.	.	.	2,178

These figures show that the truant officer has worked industriously, faithfully, and intelligently. He has nearly extinguished truancy in its worst forms, and reduced the ratio of absenteeism to the whole number in the schools more than 6 per cent during the year. He has full knowledge of the children employed in mills, and illegal employment has practically ceased. The Superintendent refers in his report to other interesting facts relating to attendance in city schools.

CONDITION OF SCHOOLS.

The schools of primary grade are entitled to the first mention for efficiency and improvement. In Manchester,

as elsewhere, primary schools receive the largest share of attention. The beginnings of mind-work are intensely interesting, and new methods of teaching generally find their field of experiment in the primary school. Not all the new departures have been admitted into our schools. Our Superintendent and committees have generally been progressive in investigation, but conservative in adoption of new things, selecting such as have been found valuable by trial elsewhere. It is sometimes necessary to stand between the public treasury and the claims of reformers, even when made in the sacred name of education.

One who can recall the prevailing method of "keeping" the primary school twenty years ago will see in our best schools to-day abundant evidence of progress in the art of interesting pupils and imparting instruction, in the appliances of the school-room, and in the quickened interest of the children. Indeed, it will not be necessary to draw upon the memory; we still have schools of the antiquarian pattern with which to compare the latest and best.

The grammar schools are successfully doing their peculiar work, intermediate between the highest and lowest. They are emphatically the "common" school of the city, finishing the education of about eighty per cent of all the pupils who enter our schools, and exerting an immense influence upon the intelligence of the community.

The High School in all its history has never been more steadily prosperous and efficient than during the period of the present mastership. Of its work the principal says: "If there is any one thing that the High School feels, it is a want of age in its pupils, and that means, in a majority of cases, a want of ability to grasp the subjects which the course of study forces upon them;" and he urges the consideration of some plan to secure greater maturity in the pupil, physically and mentally, before entering the High

School. He also calls attention to the need of systematic physical culture in that school. In the absence of any thing better, he suggests the value of music as a physical exercise, and would require all pupils to take part in it. Of the one hundred and seventy-eight pupils now in attendance, all but twenty-eight choose the exercise voluntarily.

The Training School has been fully organized upon the plan indicated in the last report. For a full understanding of that plan and the results expected of it, you are referred to the report of the Superintendent. We call attention here only to the matter of the expense of the new plan. The principal of the school receives \$1.000 per annum. She has charge of four rooms, and takes the place of four teachers at \$450 each. The young ladies who are receiving instruction in the school, and those assisting the principal, will be paid in all \$750 per year, so that a first-class training school has been established without expense to the city. Miss Sprague, the lady selected to manage this school, came to us highly recommended for her ability and success in training teachers. She has education, tact, and common sense. She will be likely to put into the school what is best in all new methods, without being a servile imitator of any.

In a general survey of our schools it is gratifying to make a report so favorable. No city within our knowledge has a superintendent more zealous and punctilious in duty, teachers more intelligent or more faithful, a system of classification and studies more elaborate or more exacting. Our schools have an excellent reputation abroad; superintendents and committees visit them for observation, and our best teachers continue to have "calls." We can boast that our schools teach as much and as well as schools teach anywhere. Our children are worked as hard, and know as much, as children in Boston or in San Francisco. In short,

the schools fill the full measure of the system to which they belong. If they are faulty, we must look to the system itself.

Long experience in school affairs suggests reform in the following directions: *First*, the introduction of manual training. At the age of five or six years, just at the time when manual dexterity is naturally and easily acquired, most children are placed in school and denied every opportunity for acquiring it, except in play. For ten years or more the hand lies untrained in school, save in a little writing and drawing, while the head has incessant work. In this respect all schools, public and private, are alike; the only choice is brain work or idleness. And the idle boy sometimes has the advantage; his brain rests, and his body gets exercise. In earlier days, before machinery had displaced handicraft and killed the apprentice system, there was an opportunity, sooner or later, to develop dexterity of hand. Now, few parents have manual occupation for their children, or know where to look for it. This condition of things is a great misfortune. It means an immense waste of power, and material loss to the individual and the community. It means a gradual destruction of Yankee ingenuity, and puts off the day when the hand can begin to earn bread and create wealth. The changes in society and in business which have swept away the old condition of things will be permanent. Manufacturers and employers cannot afford to train apprentices. The question arises, can the schools do it? Public sentiment strongly favors the attempt. As usual, the theorists have come to the front with magnificent schemes for turning all the schools into workshops, and all the children into mechanics, — schemes altogether too elaborate and expensive for any city to adopt. Such institutions as the Boston School of Technology, for instance, are high above the needs,

as well as the reach, of common-school education. They differ from the college only in name. Every one of their graduates expects to be a boss of workmen, and not a workman himself. If any system of manual instruction becomes a public institution, it must be a simple adjunct of the grammar and high schools as they now exist, requiring no expensive buildings and machinery, and no costly material to be spoiled. It must be based upon the theory that a few mechanical motions and manipulations underlie skill in all trades and the use of all tools, just as the mental teaching of our schools underlies popular intelligence. When a plan commending itself to practical men is adopted, the people will welcome and approve it. It would develop physical strength, prepare for earning a living, and add dignity to labor as correlative to study. Alternate work and study have brought just these results in institutions of a grade higher than our high schools. It is practicable for lower grades. In practical Manchester is a good place to try the experiment. Begin with sewing in the primary schools, and develop the plan until we have a course of ten or twelve hours' drill each week, parallel with the present grammar course, and a two years' course for the High School.

Second, the school system should give more *liberty to the teacher*. It happens that children are born with differing capacities for learning. Their homes differ in intelligence and helpfulness. In the schools they need individual treatment. We may gauge the course of study never so accurately to what we call the "average capacity," still some will need extra assistance and encouragement. A few days' absence, some distraction of mind for a period, and they must lose valuable lessons or fall hopelessly behind. Every teacher has noticed the aid which some children get in their homes from books and papers and

intelligent conversation, while others have only the dry text-book and the teacher's aid. If a conscientious teacher wants to help these less favored scholars over the hard places, there is no time for it. The "C" class and the "X" class must be run on schedule time. The child may be kept after school when he is hungry and impatient, and the teacher is neglecting some other red-tape requirement, but this does not meet the scholar's real needs. The highest form of teaching is that which regards the scholars as individuals, and not in classes. The nearer the personal contact of teacher and pupil, the greater the power over mind and character. Our system dwarfs both these sources of strength. It is a strong argument for the "departmental" and "consecutive" systems of instruction recommended by our Superintendent in his report of last year, that they would give greater scope to the teacher's individuality over individual scholars.

Third, the system may be strengthened on its moral side. An opportunity for this is presented by instructing pupils on the true nature and effects of alcohol and tobacco. The use of tobacco by boys is increasing at an alarming rate, and rum is still their greatest enemy. However men may defend their own intemperate habits, or deny the injurious effects of stimulants and narcotics upon the adult health, few will be found who do not wish their children to escape the consequences of their use. Since science demonstrates that alcohol is a poison as clearly as it proves a proposition in geometry, and since experience and experiment prove that the use of tobacco in youth will induce nervous disease and arrest the development of body and brain, these facts may claim a place beside the multiplication table as a necessary part of education. The United States government, after a series of experiments, has forbidden the use of tobacco in any form by boys training for

the army or navy. The legislature of Vermont has just enacted that this kind of instruction be given in all the schools of that state. It is a most hopeful sign for the cause of temperance that public sentiment is demanding that the public school be made a vehicle of correct and wide-spread knowledge of these evils. In some states, laws forbid liquor shops within the same square with a school-house. One of our large school buildings has seven within five hundred feet of it, and some of them are especially calculated to attract the young. Surely public sentiment will sustain the authorities in an attempt to protect our boys and girls from dangers so great and menacing.

TEACHERS.

Miss Emma C. Gee, Miss Mary A. Lear, and Miss Lizzie J. West, teachers in the employment of the city at the beginning of the present year, have died. They were all graduates of our Training School. They were young, and had but just begun lives full of promise when cut down by death. It is proper to record their worth in this place.

It is also fitting to mention the decease of Miss C. Augusta Gile, formerly first assistant in the High School. Probably no other graduate of our city schools has achieved a more brilliant scholarship. In her devotion to duty and in her high purposes in life, she was a model teacher. Many citizens, once her pupils, gratefully recall the power of her cultured mind and graceful womanhood.

Since the last report, five teachers have resigned, — Misses Bartlett, Prior, Salisbury, Dana, and Webster. Six were displaced at the recent annual election. The others have been re-elected, in most instances for one year. The vexed questions of their competency and tenure of office now fall to our successors. We commend to the attention of the incoming board the rule made by this committee,

but not put in force, which requires new teachers to serve twelve weeks or more on probation. Let them adopt this and courageously enforce it. It is the only way to secure good teachers. Then let them make another rule: that no teacher who has served more than one year shall be dismissed without notice. Would it not also be well to change the time of annual election to the end of the summer term, thus giving discharged teachers time to find new situations in the long vacation? Teaching is a business by which intelligent and honorable men and women earn a living. No school board, when deciding that they no longer want a teacher, have a right to prejudice that teacher's chances for employment elsewhere. In dealing with the question of removal, it is well to remember that while teachers are legally the employes of the school committee, they are really the servants of the people. The discerning public understands the teacher's labors and responsibilities. It honors the teacher's calling. It will not sanction a careless and trifling treatment of their interests. Public opinion declares that the parents whose children are under the care of a teacher are, to say the least, equally competent to judge of her worth with the committee-man who has not visited her school in a year's time. The summary dismissal of teachers of good character and long service, who have never had a suspicion that their services were not satisfactory, is a refinement of injustice which the people will not approve. On the other hand, the public demand in the choice of new teachers will be very critical. Young-lady candidates for primary schools must not think a head full of Pestalozzi and normal methods will commend them to fathers and mothers unless they also have genuine sympathy with the heart of childhood, and enough of motherly common sense to know a child's needs; nor can a man of the most brilliant scholarship expect to remain long as a

teacher of youth in our high and grammar schools unless his character bears the stamp of clean manhood.

Much of the difficulty surrounding this subject arises from a divided responsibility. Here, again, our city system is at fault. Under our state laws, towns choose two school committees, superintending and prudential. Their duties and powers are distinct. Both are elected with reference to fitness for their respective duties. Cities are allowed to vest the powers of both these committees in one body. That body then delegates a part of its duties to, and divides its responsibility with, a superintendent. Nominally, the choice of teachers and supervision of the schools is in the hands of the superintendent and that part of the committee competent to assist him. Practically it is not so. Teachers are chosen and discharged against the judgment of those who know most, by the votes of those who know least, of the needs of the schools.

The question is submitted for the consideration of our citizens, whether it would not be for the interest of the schools to change the School Committee from a parliamentary body to a board of directors, who shall choose a superintendent who shall superintend.

In conclusion, we repeat the, trite but ever-valuable advice to parents and citizens. — Know your schools. Year by year the teachers record fewer visits. More and more the schools are left to themselves. Unless the bond of sympathy between the home and the school is kept strong, teachers will become mere hirelings, and the greatest and best of our public institutions will lose its power.

MARSHALL P. HALL,

For the Committee.

MANCHESTER, Dec. 30, 1882.

SUPERINTENDENT'S REPORT.

To the School Committee of Manchester : —

GENTLEMEN, — In accordance with your rules, requiring an annual report from the Superintendent of Public Instruction, I herewith respectfully submit the following as my sixth report, the same being for the year 1882, and the twenty-seventh of its series : —

ATTENDANCE.

By comparing the results found in the attendance table for this year with similar ones for last year, it will appear that the whole number of different pupils enrolled is one hundred and forty less than the number a year ago ; but that the average number belonging and the average daily attendance are each about one hundred greater than the same items for last year. These results, opposite in their nature, the former affecting the attendance negatively and the latter positively, show that those children who have not been withdrawn from our schools belong to that pupilage which has constituted the more permanent membership and been most regular in attendance. Doubtless, too, the more stringent law in regard to the employment of children in manufacturing establishments has operated to make the membership of a certain class of pupils more stable, and the efforts of an efficient truant officer have also

helped to increase the regularity of attendance at some schools.

The school at Amoskeag is properly no longer classed as a grammar school, and, though allowance be made for the difference in the classification of that school for this year, the attendance table will reveal as facts that the high and grammar schools are slightly smaller than last year in respect to all the essential items of tabulation, that the middle and suburban schools are correspondingly greater, and that the gains and losses first mentioned have therefore chiefly affected the attendance at the primary schools.

NUMBER AND SIZE OF SCHOOLS.

There is really not so much difference in the number of schools classed as middle and primary as would at first appear from a comparison of the attendance tables of last year and this. The grades designated a year ago under the head of "Training Department," comprised two middle and two primary schools. So there were then in all thirteen schools of middle grade and thirty-two of primary grade; but two of the latter were closed a part of the year, and there was therefore an average of only thirty-one primary schools. This year there have been fourteen middle and thirty-four primary schools; but six of the latter have been in existence for only such portions of the year as would make them equivalent to but three schools, hence the average for this year is also thirty-one primaries.

One middle school in the Merrimack-street house was discontinued this year, but it was counterbalanced by another of that grade organized in 'Squog; and the middle school established on Webster street may be balanced against the discontinued extra division at Lincoln street. The apparent increase of primaries has been offset by the discontinuance of others in different localities.

The conclusion then is, that for the accommodation of an increase this year of one hundred pupils in the average number belonging and average daily attendance, there have really been no more schools than there were last year.

The small schools in the city proper, and those likely so to continue, are the two highest divisions in each of the grammar schools on Franklin street and Spring street, the higher middle school on Spring street, and the mixed middle and grammar, as well as the mixed primary, on Webster street. The two latter, however, are a necessity, for the pupils composing them cannot be accommodated in other schools reasonably near their homes, and these schools would still be small though the pupils in the Stark District were transferred thither; but by putting three small classes in a room, as of necessity has had to be done in the two upper divisions of the Main-street school, the three higher grades at Spring street could be consolidated into two schools of average size.

Two of the suburban schools have nearly doubled their daily average attendance since last year. In the Stark District the average daily attendance has been eight as against five a year ago, and in the Youngsville district it has been thirty-one in place of seventeen for last year. Of the other suburban schools, that in the Mosquito-Pond district has had an average daily attendance of but sixteen, and those at Harvey District and Webster's Mills have each averaged only twelve.

CONDITION OF THE SCHOOLS.

The High School, as a whole, has done better work than last year. Those then belonging to the corps of instructors have put forth their best efforts; and better results have been obtained, partly in consequence of the improved form of organization whereby greater quiet has been secured for

pupils at study and the undivided attention of teachers for those at recitation. The corps of instructors has also been increased and strengthened by one who had proved herself both faithful and efficient in every school placed under her charge.

Of the grammar schools, the Ash-street and Main-street have had a slightly increased attendance, while the others are but little depleted. The Main-street school is gradually gaining numbers for the higher classes; and after the first of February next it will have three divisions instead of two. There will also be fewer gaps in its classification.

There are sixteen teachers in the five largest elementary schools who do grammar-school work, and the greater part of them possess good judgment and tact, are devoted to the interests of their pupils and uniformly have good schools. The past year has been no exception, and pupils admitted to the High School for the first time upon the recommendation of the grammar masters are acknowledged by the teachers of the High School to be as well prepared for advanced work as those heretofore admitted by examination.

The greatest improvement made in the middle schools has been in the teaching of language. Pupils are daily accustomed to reproduce in writing the substance of information obtained as a result of the oral instruction which they receive, chiefly in regard to animals, plants, and occupations. Kindly criticism of the efforts made by the children in writing such abstracts develops their powers of observation, memory, and facility of expression; and it likewise gradually leads them to a better technical use of the language.

In primary schools more stress has this year been put upon the teaching of number, and considerable progress has been made in an attempt to comprehend and teach the development of numbers in accordance with the Grube sys-

tem. To second the efforts of teachers in this direction, and to economize their time for better purposes than that of endless writing upon the blackboard, I trust the committee will supply all the lower primary schools with Parker's Arithmetical Charts.

Finally, in regard to the condition of our schools, I may say that I believe the schools of Manchester will compare most favorably with those of any city of its size whose population is as diversified and unstable.

TEACHERS.

The attainment of so high a standard is largely due to the efficiency and skill of those better teachers who comprise three-quarters or more of our corps of instructors, and to the fact that all have labored faithfully to perform their official duties.

The number of our teachers who have received the benefit of normal-school instruction is exceedingly small, but it is fair and just to say that out of a long and successful experience many of them have acquired what not even a normal school could furnish a beginner, while a few have apparently repeated, in the main, the ways of management and the methods of instruction pursued by them during the first week of their official experience. As much might be said, with equal truth, of the less efficient portion of the same number of persons engaged in any other vocation. But the position of the teacher is so peculiar, his influence so far reaching and transcendent, that of all offices that of teacher should be most efficiently filled; and without a good teacher, whatever be the other appliances at hand, no first-class school can be had.

Though the material of which many of our lower-grade schools is composed is of a most mixed nature, it is nevertheless true that the character and progress of schools do

not so much depend upon the nationality of the pupils composing them as upon the fitness and efficiency of the teachers in charge. The truth of this assertion would be made evident to any competent person who might critically observe the schools in our midst, or test the results therein attained. It is true, however, that, other things being equal, those schools should be found best the pupilage of which is composed most largely of children who, "native here and to the manner born," have good homes and good home training. An indifferent school composed chiefly of such pupils appears doubly bad when placed beside an excellent one composed of pupils who, gathered "from the four quarters of the earth," find their homes out of school hours chiefly in the public street. How great the short-coming of the teacher of such a school as the former! How far beyond praise the successful efforts of the teacher of such as the latter!

If we would have our schools rank with those few places that are trying to excel all others, we should be as particular as they to see that every vacancy is supplied with the very best attainable teacher, and at least be assured that every new one obtained is a good teacher. A corps of teachers can most easily be made good, and kept so, by admitting to it only those who are thoroughly competent. I am therefore led to urge that the committee change their plan of selecting new teachers, either by the appointment of a special committee on "teachers and their positions," with full powers, or by vesting in a single individual the membership of each sub-committee having in special charge the interests of certain schools, including, as at present, the nomination of their teachers. Of the two, I should recommend the former plan, but think the latter would be an improvement upon our present one.

The method of nominating teachers now in practice here

is, I think, such as was common in most other New England cities a few years since ; but better ways now prevail in those places where greatest care is exercised to secure the best teachers, and I trust our committee will avail itself of such means of making a wise selection of teachers as the weight of experience has proved best.

For the salaries here paid, we are not likely to obtain better teachers for most positions than our own schools will afford ; and, indeed, within a few years they have furnished some of our best teachers. I therefore think the committee wise in undertaking to make our

TRAINING SCHOOL

for teachers a more strictly professional school, in which the graduates of our High School, and other competent candidates, may attain some knowledge of the science of teaching, as well as practice of its art. I esteem the committee especially fortunate in having secured Miss Sarah E. Sprague as principal of the Training School. Though she has acted in that capacity but one term, it is evident that she brought to the school, in addition to a thorough knowledge of and much experience in the business of training classes of teachers, tact, talent, sound judgment, and great skill in handling both pupils and sub-teachers, so that while the former are making progress as great as the best in similar grades of our schools, the latter have been inspired with an enthusiastic professional spirit, whose awakening and resultant diligent researches after those things which most conspire to make the true teacher are not likely to cease when they shall have attained the rank of teachers.

It may be justly said, too, that the eleven sub-teachers now in the Training School all give fair promise of ability to become efficient teachers, if assigned to grades to which they may be found best adapted. If future classes of sub-

teachers shall be found as scholarly and otherwise competent as the present one, the committee should have no trouble in filling future vacancies in teachers' positions, by selections from graduates of the Training School, in a way that should prove satisfactory to themselves and beneficial to the schools. Permit me, therefore, to urge that, in order to encourage the best element in our midst to enter the Training School, the committee establish a rule that qualifications of candidates for teaching being equal, graduates of the Training School shall have the preference when teachers are selected for permanent positions.

The following outline will indicate, in a general way, the

COURSE OF STUDY

undertaken by the sub-teachers in the Training School. This includes a careful consideration of the best methods of instructing pupils in reading, spelling, penmanship, arithmetic, geography, language, color, form, size, weight, place, elements of physiology, and elements of natural science (considering especially plants and animals). The work in methods of instruction is accompanied by lessons in school economy, school organization and school management receiving particular attention.

It may be well to explain that the subject of place is divided into three parts, viz., position, direction, and distance, and lessons on these topics are designed to prepare the children to use the geography as a text-book.

The members of the training class spend one hour of each day with the principal, receiving instruction in the best ways of teaching the subjects already indicated, criticisms upon their work with the children, suggestions as to the duties of the succeeding day, etc.

From time to time, lessons for criticism are given by

members of the training class, in accordance with the following plan: The principal assigns a lesson for the class to prepare to teach, no one knowing which member of the class will be called upon to act as teacher. At the time appointed the principal selects a teacher and two or three critics from the members of the class, leaving the remainder to serve as pupils and receive the lesson.

After the lesson is given, criticisms are called for. The critics give their criticisms, both favorable and adverse, with their reasons for the same. These are supplemented by other members of the class, and, finally, the principal reviews the lesson, accepting or rejecting the criticisms made, as the case may require, adding other criticisms when necessary.

No other plan seems so well adapted to illustrate to the whole class the pernicious effects of faulty questioning, insufficient preparation, mannerisms, and kindred evils on the part of a teacher.

Neither is there any other way known to me by which young teachers can so quickly be made to understand and appreciate the difference between good and poor work in teaching except to have these trial lessons given to children, and this can not always be arranged for conveniently.

Besides the lectures and lessons already described, the principal and members of the training class go over various manuals of instruction together, discussing methods therein given, the principal explaining parts not well understood.

In response to a request for additional apparatus and books for the Training School, the School Committee promptly voted money for that purpose.

The following is a list of the works at present composing the Training-School library: —

Set of Johnson's Encyclopedias. 8 vols.

Worcester's Unabridged Dictionary.

Methods of Teaching, by Jno. Swett.

School Economy, by Wickersham.

Science of Education, by Alexander Bain.

Education, by Herbert Spencer.

Theory and Practice of Teaching, by David Page.

History of Pedagogy, Kindergarten Culture, by W. N. Hailman.

Attention, how to Secure and Retain, Mistakes in Teaching, by J. L. Hughes.

Talks with Teachers, by A. D. Mayo.

Manual of Elementary Instruction, Lessons on Objects, by E. A. Sheldon.

How to Teach, by Kiddle, Harrison, Calkins.

Object Lessons, by C. N. Calkins.

Elementary Lessons in English, by Mrs. N. L. Knox.

Normal Training, by Russell.

Common School Education, by James Currie.

Household Education, by Harriet Martineau.

Sex in Education, Building a Brain, by Dr. E. H. Clarke.

First Book in Botany, by Youmans.

Book of Nature, by Dr. W. Hooker.

School Management, by J. Baldwin.

Life of Horace Mann, by Mrs. Mary Mann.

Reports of Horace Mann. 2 Vols.

Lectures on Teaching, by J. G. Fitch.

On Teaching, by Calderwood.

Life of Pestalozzi, by Prof. H. Krusi.

New England Journal of Education, Primary Teacher, Public School, Good Times, by New England Publishing Company.

With the nucleus now established, and the expenditure of a small sum of money each year to buy more books, it

will not be long before a valuable library of professional books will be owned by this school.

Regular reading of the books and periodicals in the library is required of the members of the training class, and forms an essential feature in their preparation for teaching.

It is proper here to add that the Training School, embracing a lower and a higher middle and a lower and a higher primary grade,* was re-organized upon its present general plan in the four lower rooms of the Franklin-street School, at the opening of last spring term, and placed in charge of Miss Clara A. Armes as principal. Miss Armes was found to be a lady of good education and much culture. She was experienced and skillful in normal methods of teaching. She had greater taste, however, for work with advanced pupils, and resigned, at the end of the term, to accept a more tempting position in a young ladies' seminary in a distant state.

The establishment of the Training School upon a professional basis may be regarded as the most important act of your administration of school affairs. Among

OTHER MEASURES

effected by you, for the good of the schools, may be mentioned the reduction of the afternoon sessions of the schools from three hours to two; a better arrangement in the form of the manual of school "organization;" the establishment of fire-alarm signals for closing schools in very bad weather; the experiment of admitting grammar-school pupils to the High School upon the recommendation of the grammar masters; the appointment of teachers upon trial for one term before final election; a liberal allowance of matter for supplementary reading in the schools, as well as a generous supply of maps, globes, cyclopedias, other books of

* These four grades cover the first five years of school work.

reference, and varied forms of illustrative apparatus; extended and much needed improvements of school-houses, as well as of the arrangements for heating them; a revision of the "Course of Study," as well as of the "Rules and Regulations" for the government of the schools; and the appointment of a truant officer.

Emphasis is given in the revised course of study to the most important branches taught in our schools, arithmetic and language. The study of arithmetic is confined to its more practical applications. There is omitted in the elementary schools the consideration of duodecimals, multiplication and division of compound numbers, the metric system, equation of payments, alligation, the progressions, and the unpractical portions of mensuration, with the design of having the more important of these subjects taught later in the school course, when pupils have greater maturity of mind for their comprehension. By this means more time is available in the elementary schools for the study of language, and the essentials of other branches usually taught in common schools. Language is here spoken of in that broad sense which includes reading and spelling, as well as all other forms of written and oral expression.

The change made in the course of study, whereby it is provided that promotions shall be made at the end of each five months' work, has proved salutary in relieving the schools of that pressure which formerly caused teachers to feel that as much must be accomplished in the first four months of the year as during the last six. By this same change, the other advantages mentioned in my report of 1879 (page 45) are also attained.

There is, however, one change which I recommend to be made in the course. The attempt to teach spelling solely by copying the written forms of words, during the first three years of the child's attendance at school, has here, as

elsewhere, proved at least a partial failure. The arrangement does very well for the first year, and the introduction of the spelling-book at the opening of the fourth year is sufficiently early ; but during the second and third years I think there should be much oral spelling of words found in the reading lessons, as well as of many other words in common use by the children composing the classes of these years. The preparation of their spelling exercises, however, may well continue to be made in writing. With the concurrence of the committee, I propose to inaugurate the change mentioned during next term.

SUPPLEMENTARY READING.

The extended use of matter for supplementary reading in the schools has proved highly satisfactory. I have been especially gratified in observing, from recent special examinations, the improved condition of the classes in general, in respect to reading. This improvement is doubtless largely due in primary schools to the improved methods of teaching reading to beginners, but even in these lower grades supplementary reading is as useful as in any. It fixes in the minds of beginners the vocabulary which is being taught them, for the form of their supplementary reading is confined to an expression of thoughts kindred in meaning to those already entertained. This expression, too, is chiefly made by the use of the same words as those which clothe thoughts previously considered in regular lessons, the words, however, being variously arranged. By this means the pupil is better taught the significance of the words he uses, and he is naturally led to give them expression according to their importance in other combinations.

In higher primary classes, the form of matter for supplementary reading consists of selections containing new stories, chiefly expressed in words with which the pupils are

already familiar. Such reading not only increases their interest in the study, but it affords them opportunity to read with that naturalness which is attained only by facility of expression. Being thus encouraged, and feeling that they can "read right off as grown people do," they make much progress.

With middle-school and lower grammar classes supplementary reading comprises matter containing less familiar words, to enlarge the vocabulary of pupils and to teach them how to discover the meaning of words from their context. Care, however, must be exercised to see that the subject-matter for this class of pupils, as well as that for all others, is not beyond their comprehension.

With advanced grammar classes some of the higher forms of literature may be profitably used, as well as elementary treatises upon the natural sciences, for the purpose of habituating pupils to inspect the text of what they read so as to elicit therefrom its whole thought. Such reading as this may properly supplement ordinary fifth or sixth readers.

Reading matter, used as suggested for the various classes of pupils, supplements not only the school readers, as such, but also the efforts of the teacher to promote the intelligence of the pupil by logical processes of arousing his mental activities. Supplementary reading is also a powerful auxiliary in the work of instruction in language. It affords the younger children variety of form and material, and for the older ones it may be so arranged and handled as to create a love for the study of works that would result in a limited course in literature, which would be more likely than anything else in his elementary studies to determine a pupil to seek a higher, or liberal, education.

This wider range of reading matter in the schools also affords food for the development of the general information

of pupils; and, by a more diversified presentation of the various phases of life, it increases the opportunities of the teacher for casually imparting moral instruction, and the giving of such instruction incidentally all teachers of experience know to be the best method of teaching morality in the public school, aside from the example of an upright life by the teacher.

Supplementary reading also imparts freshness to reading exercises. No author can put into an ordinary book, forming any one of his series of readers, any thing like all the gems of thought or desirable selections known to him and adapted to a certain age. Hence by using several school readers by different authors, appropriate to any age of younger pupils, there are obtained the best selections, adapted to that age, known to several authors; and there may therefore be obtained from this source as pleasing and as instructive a variety of reading matter as our language affords.

A small number of readers may be made to do a great amount of service, by changing them about among the schools; and, if kept from pupils except at times of recitation, they will last many terms. Moreover, books designed for supplementary reading should be so kept from pupils for other than economic reasons. If pupils are allowed to take the books to their desks, they soon cease to afford fresh matter; and half the object of their use in arousing constant and renewed interest in the reading lesson is soon lost. Teachers realize this from their knowledge of the way in which their own interest is renewed when new readers are introduced into the schools, after the selections of the old text-books have become stale from much repetition.

How many adults could read and reread, over and over again, as pupils are frequently required to do in school, the

average selections of the school reader. not only without losing their interest, but without returning to the work in evident disgust? What then might not be said of the feelings of children who are compelled time after time, and again term after term, to reread lessons which they justly regard as tasks? But introduce supplementary reading whose vocabulary is of the grade of the text-book proper to be used, and it will be like putting oil upon troubled waters; night becomes day, and smiles succeed frowns.

The primary object of teaching people to read is to enable them readily to discover ideas as represented upon the printed page; secondarily, to enable them to reproduce and express these ideas intelligently and naturally; and, finally, to enable them to give such expression in the most effective and pleasing manner. Supplementary reading in schools is more or less helpful in securing all of these points; and, wherever used, its results in respect to the first and second points named are sufficiently evident to establish its utility and determine its continuance. As the first and second points are fundamental to the attainment of the third, and as supplementary reading is the best-known book assistance in enabling the pupil quickly to apprehend thoughts represented in print, and then to express those thoughts intelligently and naturally, a place for its exercise in the schools is unimpeachable.

In my report of two years years ago I also expressed the belief that the results of such reading in the schools would save many a child from the wretched life engendered by a perusal of the miserable trash which is thrown broadcast over the country in the form of cheap reading, by so cultivating the taste of pupils for the higher forms of literature that they would no longer be satisfied with that which is low and demoralizing. Should such results prove true, even to a limited extent, the cost of supplementary reading

supplied our schools would prove a most profitable investment.

To secure so desirable an end, great care must be exercised in the choice of books to be used for the purpose; and during the latter portion of the common-school period, when pupils have acquired an extended vocabulary, I think the reading should be limited to one or two good books, or their equivalent in a few standard selections, which should be thoroughly read, and so discussed and treated as to enable pupils to carry from school into life both the ability and the inclination to obtain from books only that which is good, and of that the greatest possible amount.

Our schools for the past year or two have been fairly supplied with good books for supplementary reading, and I repeat that their use has proved highly beneficial; but some of these books have become badly worn and will soon need to be replaced, and it is hoped future committees will provide the means for continuing the work so well begun.

In this connection I think it well again to suggest that it would be wise for the city to purchase all the readers used in her schools. By this means a few sets of several series could be purchased, and by changing them about among the schools the advantages of books now used for supplementary reading could be had without additional expense. Besides, readers purchased by the city at wholesale could be obtained comparatively cheap, and the patrons of our schools would have their expenses for text-books materially lessened. The free use of readers to all pupils in the city schools is granted at Portland, Me., and the same has been practiced for seven or eight years at Grand Rapids, Mich. I am also informed by the superintendents in these cities that the practice has proved highly satisfactory.

RECOMMENDATIONS.

It may be observed that the more important recommendations made in this report are that another plan be adopted for the selection of teachers, that a rule be established whereby, other things being equal, graduates of the Training School shall have the preference when teachers are to be appointed,* and that the free use of readers be supplied all the pupils in our public schools.†

I also call the attention of the committee to other important recommendations made in former reports, and for the reasons therein stated, as follows: First, applicants for admission to the Training School should be required to pass, before being admitted to that school, a satisfactory examination upon the *matter* of common-school studies, so that it may be certain they have the requisite scholarship, and that upon graduation, which should be allowed only on condition that while members of the Training School they show fitness to teach, they need be examined only upon the theory and practice of teaching.‡ Second, substitutes should be furnished schools whenever regular teachers are absent for the purpose of visiting other schools.§ Third, masters of the grammar schools should become conversant with the details of school work for all grades; and they should then be given supervision, under the school authorities as directed by the course of study and advised by the Superintendent, of all schools in their respective buildings, being each allowed an assistant for the purpose of enabling them properly to execute such supervision, — a thing which they cannot well do under the present form of organization, even in the various divisions of their grammar departments.||

* Report of 1877, p. 37.

† Report of 1878, p. 51.

‡ Report of 1879, p. 31; and Report of 1881, p. 35.

§ Report of 1881, p. 34.

|| Report of 1880, p. 39.

I shall now speak only with reference to my first recommendation. I have suggested that there be a change in our plan of selecting teachers, because to me the present way seems ill advised; and upon consultation with other superintendents of greater and more varied experience I find our present practice, though once quite common, now disapproved in strongest terms. It is usually argued that under a responsibility so divided the care requisite to ascertain the merits of respective candidates is not usually exercised. It is also held as unbusinesslike to have so many centers virtually controlling the appointment of employes who should feel themselves held responsible to the general committee as one whole, which is found to be the case when all teachers obtain their positions through the same standing committee.

Besides, what interest is so vital to the welfare of the schools as the character of their teachers? If, then, a standing committee can best manage, for all the schools, such matters as repairs and supplies, text-books and apparatus, fuel and heating, and finance, why not a similar committee for teachers and their positions? Not more than one committee can, to best advantage, survey the whole field of labor in which a large corps of teachers are engaged, discriminate in regard to the value of their efforts in particular localities, and then bring about such changes in the teaching force as will best subserve the interests of all the schools.

With a standing committee for the selection and examination of teachers, sub-committees could be continued as visiting committees, power being vested in the chairman of each to make such temporary arrangements for his respective schools as is now provided by "the Rules of the Committee." This last suggestion is made merely to facilitate any need of action in behalf of a school under ordinary cir-

cumstances, it being understood that the chairman would consult his full sub-committee in all extraordinary cases.

CONCLUSION.

The public-school system of this country, though justly considered the chief source of her strength and the greatest object of her pride, has but recently taken root in a large section of her territory. It has taken two hundred years for this system to gain the respect and confidence of the whole people. Now, however, the public schools are rooted in the hearts of the people north and south, as well as east and west; and, like the stanch oak of two centuries' growth, they readily withstand the sharp attacks made upon them from any quarter.

The common schools will never lose the confidence of the American people. Inconsiderate assaults can no more uproot them than a flurry of wind the oak; but true criticism may well continue to perform the office of the pruning-knife.

Our own schools are the product of many years' growth; and, unlike "the barren fig-tree," they have extended their branches throughout the community and borne rich fruit. In their management, under your direction, I have endeavored to carry out the understood will of a majority of the committee. I have tried to keep within the limits of the regulations prescribed for the government of the Superintendent, though they have sometimes been felt to be unnecessarily restraining. I have revealed the greatest weaknesses of the schools to members of the committee only. I have tried to strengthen them chiefly by an effort to have every vacancy in the corps of teachers filled by choice of the best available candidate. I have not thought it wise to try to cause the removal of any teacher in the uncertainty of having the vacancy filled by a superior.

Finally, gentlemen, if, through undue jealousy for the welfare of the schools, I have sometimes seemed to urge a course other than what any of you have most wished, I thank you for your forbearance, and only ask that you accord me honesty of purpose in attempting to perform the duties of my office in accordance with my official oath.

Respectfully submitted.

WILLIAM E. BUCK,
Superintendent.

December 29, 1882.

TABLE SHOWING THE ATTENDANCE AT THE VARIOUS SCHOOLS FOR THE YEAR 1882.

SCHOOLS.	Whole No. En-rolled.	Whole No. Belonging.*		Average Number Belonging.	Average Daily Attendance.	Percentage of Daily Attendance.
		Boys.	GIRLS.			
High School.....	233	83	95	172	169	98.2
Franklin-street Grammar School.....	246	93	87	142	136	95.7
Lincoln-street Grammar School.....	254	96	96	167	157	93.1
Ash-street Grammar School.....	326	85	108	176	166	94.3
Spring-street Grammar School.....	108	37	38	57	54	94.7
Piscataquog Grammar School.....	109	46	63	76	72	94.7
Amoskeag School†.....						
Totals.....		357	392	618	585	94.7
Middle School No. 1.....	79	31	22	43	40	93.0
“ “ “ 2.....	74	23	30	41	37	90.2
“ “ “ 3.....	86	25	23	41	37	90.2
“ “ “ 4.....	82	27	27	45	41	91.1
“ “ “ 5.....	79	37	21	48	45	93.7
“ “ “ 6.....	59	25	25	40	37	92.5
“ “ “ 7‡.....	87	25	39	43	39	90.6
“ “ “ 8‡.....	63	32	24	43	40	93.0
“ “ “ 9.....	67	35	24	47	43	91.5
“ “ “ 10.....	61	26	22	29	27	93.0
“ “ “ 11.....	46	29	17	38	35	92.1
“ “ “ 12||.....	77	31	17	33	31	94.9
“ “ “ 13.....	71	23	22	37	34	91.9
“ “ “ 14§.....	27	1	2	25	24	96.0
Totals.		370	315	553	510	92.2
Primary School No. 1.....	83	43	43	43	38	88.4
“ “ “ 2¶.....	66	28	28	36	34	93.7
“ “ “ 3.....	89	39	40	44	38	86.0
“ “ “ 4.....	90	34	25	45	42	93.3
“ “ “ 5.....	81	37	25	40	36	90.0
“ “ “ 6.....	83	33	44	39	37	94.8
“ “ “ 7.....	88	26	39	49	46	93.9
“ “ “ 8.....	93	32	40	38	33	87.0
“ “ “ 9, Discontinued.....						
“ “ “ 10.....	98	48	29	46	37	80.4
“ “ “ 11‡.....	89	43	39	49	44	89.7
“ “ “ 12‡.....	76	25	29	41	38	92.7
“ “ “ 13.....	84	36	34	42	39	92.8
“ “ “ 14.....	81	26	27	48	43	89.6
“ “ “ 15.....	97	27	29	47	42	89.4
“ “ “ 16.....	140	35	34	52	48	92.3
“ “ “ 17.....	81	22	26	44	40	90.7
“ “ “ 18.....	119	60	57	47	42	89.4
“ “ “ 19.....	63	28	29	42	37	88.1
“ “ “ 20.....	94	39	50	44	39	88.8
“ “ “ 21**.....	37	0	2	32	29	90.6
“ “ “ 22.....	59	29	27	31	27	87.1
“ “ “ 23¶.....	75	37	37	34	30	90.7
“ “ “ 24.....	83	54	16	39	35	87.7
“ “ “ 25.....	156	42	30	47	41	87.2
“ “ “ 26.....	145	32	17	41	38	92.7
“ “ “ 27, Discontinued.....						

TABLE SHOWING THE ATTENDANCE AT THE VARIOUS SCHOOLS FOR THE YEAR 1882, — *Continued.*

SCHOOLS.	Whole No. En-rolled.	Whole No. Belonging.*		Average Number Belonging.	Average Daily Attendance.	Percentage of Daily Attendance.
		Boys.	Girls.			
Primary School No. 28.....	97	44	53	41	38	92.7
“ “ “ 29.....	71	41	30	31	27	87.1
“ “ “ 30††.....	35	19	16	32	28	87.5
“ “ “ 31||.....	96	27	22	36	34	89.6
“ “ “ 32||.....	114	26	21	35	31	88.6
“ “ “ 33||.....	93	48	41	40	36	90.0
“ “ “ 34‡‡.....	67	0	6	30	29	96.6
“ “ “ 35§.....	23	2	3	21	19	90.5
Bakersville.....	81	40	37	45	39	86.6
Totals.....		1102	1025	1371	1234	90.0
Suburban School, District No. 1.....	16	9	6	9	8	89.1
“ “ “ “ 2†.....	67	20	34	40	34	85.0
“ “ “ “ 3.....	63	33	22	38	35	92.1
“ “ “ “ 4.....	62	33	29	43	41	95.3
“ “ “ “ 5.....	25	12	12	13	12	92.0
“ “ “ “ 6.....	24	7	16	14	12	85.7
“ “ “ “ 7.....	46	21	22	29	25	86.2
“ “ “ “ 8.....	55	28	26	38	31	81.6
“ “ “ “ 9.....	26	11	15	19	16	84.2
Totals.....		174	182	243	214	88.1
Aggregate totals.....		2086	2009	2957	2712	91.7
Aggregate totals for 1881.....		2200	2035	2858	2602	91.0

* Exclusive of those received, by promotion or transfer, from other schools in the city.

† Heretofore classed as a grammar school; though not graded as such, and as much suburban as “No. 3” at Bakersville.

‡ The schools at Franklin street, now organized as a training school for teachers.

|| The schools formerly constituting the Training School, “No. 31 Primary” then being of middle grade.

§ New school on Webster street, and in existence during the fall term only.

¶ Closed near the opening of the fall term.

** In existence during the spring term only.

†† In existence during the winter term only.

‡‡ In existence during the spring and fall terms only.

It may be added, for the benefit of the uninformed, that there is in this city an extensive system of Roman Catholic parochial schools, which accounts in part for the comparatively small portion of our population (36,500) in the public schools.

LIST OF TEACHERS AND JANITORS.

HIGH SCHOOL, — BEECH STREET.

Principal. — Albert W. Bachelor.

Assistants. — George I. Hopkins.

Lucretia E. Manahan.

Emma J. Ela.

Mary A. Buzzell.

Rocilla M. Tuson, two terms.

FRANKLIN-STREET SCHOOLS.

Second Floor. — Grammar Grades.

Principal. — Edward P. Sherburne.

Assistants. — Clara G. Fogg.

Lottie R. Adams.

Carrie E. Reid.

*First Floor. — Lower Grades.**

No. 8 Middle. — C. Augusta Abbott, two terms.

7 Middle. — Hattie G. Flanders, two terms.

12 Primary. — Nellie M. James, one term.

11 Primary. — Lenora C. Gilford, one term.

SPRING-STREET SCHOOLS.

Second Floor. — Grammar Grades.

Mary L. Sleeper.

Annie O. Heath.

No. 9 Middle. — Fannie D. Moulton.

First Floor. — Lower Grades.

No. 10 Middle. — Lizzie P. Gove.

*Organized as a training school at the opening of the second term. See report of the Superintendent.

- No. 14 Primary. — Emma L. Stokes.
 13 Primary. — Lucia E. Esty.
 26 Primary. — Carrie I. Stevens.

LINCOLN-STREET SCHOOLS.

Second Floor. — Grammar Grades.

Principal. — Benjamin F. Dame.

Assistants. — Julia A. Baker.

Mary J. Fife.

Isabelle R. Daniels.

First Floor. — Lower Grades.

No. 5 Middle. — Mary F. Barnes.

4 Middle. — Anna J. Dana, one term.

Carrie M. Gilmore, two terms.

7 Primary. — Emma F. Beane.

ASH-STREET SCHOOLS.

Second Floor. — Grammar Grades.

Principal. — Daniel A. Clifford.

Assistants. — Anstrice G. Flanders.

Rocilla M. Tuson, one term.

Annie A. Webster.

Bertha L. Dean, two terms.

First Floor. — Lower Grades.

No. 3 Middle. — Bertha L. Dean, one term.

Mary A. Smith, one term.

C. Augusta Abbott, one term.

2 Middle. — Mary A. Smith, one term.

Carrie M. Gilmore, one term.

Hattie G. Flanders, one term.

4 Primary. — Helen M. Morrill.

3 Primary. — Georgianna Dow.

WEBSTER-STREET SCHOOLS.

First Floor.

- No. 13 Middle. — Mary A. Smith, one term.
 35 Primary. — Louisa R. Quint, one term.

BLODGET-STREET SCHOOLS.

First Floor.

- No. 1 Primary. — Ella F. Salisbury.

Second Floor.

- No. 1 Middle. — Nellie I. Sanderson.

BRIDGE-STREET SCHOOL (CORNER UNION).

- Emma M. Rowley, one term.

LOWELL-STREET SCHOOLS (CORNER CHESTNUT).

First Floor.

- No. 8 Primary. — Nellie B. Putnam.
 23 Primary. — Flora M. Senter, two terms.

Second Floor.

- No. 24 Primary. — Mary E. Sylvester.
 5 Primary. — Ella F. Sanborn.

MANCHESTER-STREET SCHOOLS (CORNER CHESTNUT).

First Floor.

- No. 18 Primary. — Maria N. Bower.
 10 Primary. — Nellie Pearson.

Second Floor.

- No. 2. Primary. — Clara N. Brown, two terms.
 9 Primary. — Discontinued.

MERRIMACK-STREET SCHOOLS (CORNER UNION.)

First Floor.

No. 33 Primary. — Ida J. Bartlett, one term.
 Lenora C. Gilford, two terms.
 32 Primary. — Elvira S. Prior, one term.
 Nellie M. James, two terms

Second Floor.

No. 31 Primary. — Mintie C. Edgerly.
12 Middle. — Nancy S. Bunton.

WILSON HILL.

No. 6 Primary. — Abbie E. Abbott.

BEECH-STREET SCHOOLS (CORNER SPRUCE).

First Floor.

No. 22 Primary. — Florence A. Nichols.
 29 Primary. — Louisa R. Quint, two terms.
 Emma M. Rowley, one term.

Second Floor.

No 30 Primary. — Lizzie J. West, one term.
27 Primary. — Discontinued.

MAIN-STREET SCHOOLS.

Second Floor. — Grammar Grades.

Principal. — Frank S. Sutcliffe.
 Assistants. — Cora M. Dearborn.
 Lizzie A. Burns, one term.

Second Floor.

No. 11, Middle. — Lizzie A. Burns, two terms.
Florence McEvoy, one term.

- No. 6 Middle. — Florence McEvoy, two terms.
 Ellen E. McKean, one term.
 34 Primary. — Josephine H. Martin, one term.

CENTER-STREET SCHOOLS.

First Floor.

- No. 25 Primary. — Clara E. Woods.
 28 Primary. — Belle M. Kelley.

Second Floor.

- No. 15 Primary. — Jennie F. Bailey.
 16 Primary. — Augusta S. Downs.

SOUTH-MAIN-STREET SCHOOLS.

First Floor.

- No. 20 Primary. — Ellen E. McKean, two terms.
 Delle E. Haines, one term.
 17 Primary. — Alice G. Lord.

Second Floor.

- Overflow. — Delle E. Haines, one term.

SUBURBAN SCHOOLS.

- No. 1, Stark District. — Susie A. Crosby, one term.
 Nina D. Annis, two terms.
 2, Amoskeag. — Etta J. Carley.
 19 Primary. — Jennie G. Stebbins.
 3, Bakersville. — Emma C. Gee, one term.
 Phebe A. McGuire, two terms.
 36 Primary. — S. Izetta Locke.
 4, Goffe's Falls. — Georgie A. Nute.
 5, Harvey District. — Mary W. Mitchell.
 6, Webster's Mills. — Susie G. Woodman.

- No. 7, Hallsville. — Annie W. Patten.
 8, Youngsville. — Olive J. Randall.
 9, Mosquito Pond. — Olive A. Rowe.

SPECIAL TEACHERS.

Music. — Jason J. Kimball, three days per week.
 Drawing. — Mary K. Webster, two terms.

JANITORS.

High School, Ash Street, Bridge Street, and Blodget Street.

John S. Avery.

*Franklin Street, Manchester Street, Lincoln Street, and
 Wilson Hill.*

John A. Carr.

Spring Street and old High-School House.

George W. Varnum.

Merrimack Street and Spruce Street.

Rufus Lamb.

*'Squog Schools, Consisting of Center Street, Main and
 South-Main Street Schools.*

D. H. Morgan.

REPORT

OF THE

CHIEF ENGINEER OF THE FIRE DEPARTMENT.

REPORT
OF THE
CHIEF ENGINEER OF FIRE DEPARTMENT.

ENGINEERS' OFFICE,
MANCHESTER, N. H., December 31, 1882.

*To His Honor the Mayor, and Gentlemen of the City
Councils : —*

In compliance with section 5 of chapter 8 of the Laws and Ordinances of the city, I herewith submit the annual report of the Manchester Fire Department for the year ending December 31, 1882, giving amount of property connected therewith, as well as the fires and alarms to which the department has responded.

Another year has passed, and while our city is enlarging its borders, thus adding to its fire risks, it has been free from any very severe conflagration.

There have been twenty-nine alarms, two of which were for fires out of the city (Derry and Suncook), to each of which portions of the department responded, as well as to Raymond (for which no general alarm was sounded). The two latter places, however, were not reached in season to be of any avail, but at Derry one steamer and a squad of men did effectual service.

The most serious affair pertaining to the department the past year was at the fire in Museum building, on the even-

ing of June 26, at which time was created an uncalled for panic that resulted in several persons jumping from the third and fourth stories to the pavements below, injuring them severely. Had they remained in their rooms until ladders could have been erected, all could have been brought out in safety ; or, had the building been provided with suitable fire-escapes, no such disaster need to have occurred. And here let me state that there is hardly a building within our city limits, aside from some of our mills, properly provided with such escapes. This disaster, as well as many of a more serious nature in other cities, should lead to the enactment of a law for the better protection of the lives of the inmates of large buildings.

ORGANIZATION.

As the department is at present organized, it consists of one hundred and two members, divided as follows : —

- 1 Chief Engineer.
- 4 Assistant Engineers.
- 2 Steam Fire Engine Companies, — 14 men each.
- 1 Horse Hose Company, — 20 men.
- 2 Horse Hose Companies, — 12 men each.
- 1 Hook and Ladder Company, — 25 men.

A lot of land at the corner of Park and Massabesic streets has been purchased, a hose-house fitted up, and a cottage house built thereon ready for occupancy. and by early spring it is hoped to have a horse hose-carriage, with a company of twelve men, located at that place. It is a much needed addition, and one that will be fully appreciated by our citizens, especially those residing in that immediate locality.

THE APPARATUS

is in good repair and serviceable condition, though I

would recommend the early attention of the city councils to the exchange of the present Hook and Ladder Truck for a much stronger one. The one now in use, which was originally built to run by hand, is not strong enough to meet the strain made upon one drawn by a pair of horses, loaded as heavily as this must necessarily be to meet the demands of a department for a city of this size.

The wheels of the supply wagon are also too light for the requirements of such a service, and a new wagon ought to supply its place.

The apparatus at present is located as follows, and consists of —

- *4 Steam Fire Engines, at Central Fire Station.
- 1 Horse Hose Carriage, at Central Fire Station.
- 1 Horse Hose Sled, at Central Fire Station.
- 1 Hook and Ladder Truck, at Central Fire Station.
- 1 Supply Wagon, at Central Fire Station.
- 1 Horse Hose Carriage, cor. Maple and East High sts.
- 1 Horse Hose Carriage, on Clinton street, 'Squog.
- 1 2-wheeled Hose Carriage at the P. C. Cheney Company's paper-works, Amoskeag, manned by men at works.
- 1 2-wheeled Hose Carriage, Derry mills, Goffe's Falls, manned by men at the mills.

Another change which the city councils might well consider is the discontinuance of the "jumper" attached to the rear of the steamers, and the substitution therefor of a two-wheeled horse hose-carriage, to be run in connection with the steamers. This would require another horse to each steamer company. This suggestion may seem rather metropolitan, but as it is a change that must be made sooner or later to increase the efficiency of the department, its consideration may be worthy of note.

* Two of which are in reserve.

It would be well to look to the establishment of another hose company in the near future, to be located in the northeastern section of the city.

THE BUILDINGS

occupied by the department could be more satisfactorily cared for, if they were under the supervision of the Board of Engineers. As they now are, it is often a tedious undertaking, and not always a pleasant one, to get the necessary repairs made. The engineers are better acquainted with the needs pertaining thereto than those not so directly interested.

A PROTECTIVE DEPARTMENT

is an important adjunct to any fire department, — is one that has often been alluded to, and which would be of great service in protecting property from damage by water, and I hope it will ere long receive suitable recognition here.

THE ANNUAL PARADE.

The third annual parade of this department occurred on Wednesday, September 13, at which time the "William Chase Steam Fire Engine Co. No. 1," of Salem, Mass., with their mayor and other invited guests, were on a visit to this city, and, by invitation, joined in the parade. The continuance of this parade serves to keep the several companies harmonious and better acquainted with one another.

THE FIRE-ALARM TELEGRAPH.

This has received the constant and careful attention it requires, and its need is more and more appreciated each year. It has been established since September, 1872, and each year has been required to perform additional labor. Soon there should be added to the circuit a new box, located

in the fast-growing settlement at the west end of the McGregor bridge; also a striker on the Webster-street school-house, connected with the bell recently transferred from the central fire station.

A much-needed addition to the fire alarm is "indicators" for the different engine-houses, thus enabling the drivers to get the location of fires more correctly than by counting, which, in the confusion of "hitching up," they are liable to get incorrectly.

There is no doubt but that, before many years, the whole system will have to be re-arranged and the wires re-run. At present there are but three circuits, and as the city limits are rapidly extending, much new wire will have to be run, thereby overloading the battery. Five or more circuits should be established to meet the growing demands.

THE HOSE

of the department was thoroughly tested during the summer, and such as would not stand a pressure of 120 pounds was condemned. That now in use is in good serviceable condition.

THE FIREMEN'S RELIEF ASSOCIATION.

This association has had but few drafts upon its treasury during the past year, nor has the amount of its funds been increased by any liberal donations as in the preceding year. Its treasury is still open to receive such donations from the generous public as it may feel disposed to make.

Its present funds are as follows: —

Cash on hand February 14, 1882 . . .	\$1,056 99
By cash paid out	71 50
	<hr/>
Balance now in treasury	\$985 49

TELEPHONE WIRES.

This subject was referred to in my last year's report, and the present location and arrangement of the wires are no better than then, and are as liable at any time to retard the prompt workings of the department.

Although the mayor and aldermen passed an order that the wires should be at least thirty-five feet from the ground (on Elm east and west back streets), no change has been made, and they are many feet lower than the required height.

CONCLUSION.

One of the worst features connected in any way with the department is the arrangement of taking nearly all of the horses from the stables, after a storm, to break out the roads. It is a very unwise proceeding, for, at such times, should an alarm sound, *all the horses* should be at hand to assist in getting the apparatus quickly to a fire. It is true the streets must be broken out, but it is easier obtaining horses for street service than for fire duty. Our past good luck in respect to alarms at such times may not always continue, and "an ounce of prevention" may save many thousand dollars.

I desire to express my thanks to his Honor Mayor Putnam for his courtesy to me and the interest he has at all times taken in the well-being of the department; to the members of the city councils, who, by their official acts, have ever had its interest in view; to the efficient Assistant Engineers for the support and counsel they have so cheerfully rendered; to the city marshal, assistant marshal, captain of the night watch, and the entire police force under their charge, who have not only rendered assistance at fires, but have prevented many by extinguishing them in their early stages; to the superintendents of streets in

Districts Nos. 2 and 10 for their courtesy in the assignment of horses; and, finally, to the officers and men for their prompt, active, and efficient services in times of need.

The standing of the several companies comprising this department is too well known by our citizens to require any comment at my hands.

Respectfully submitted.

THOS. W. LANE,
Chief Engineer Manchester Fire Department.

FIRES, ALARMS, LOSSES, ETC., FROM

Day of Week.	Day of Month.	Hour.	Box.	Location.
Thursday.....	January 19.	8.57 P. M.	15	50 Pearl street.....
Sunday.....	January 22.	5.45 P. M.	4	Park, near Elm.....
Thursday.....	January 26.	10.30 P. M.	4	607 Elm street.....
Sunday.....	January 29.	9.20 A. M.	4	Corner of Park and Elm.....
Tuesday.....	February 14.	11.50 P. M.	7	Elliot & Means' block.....
Thursday.....	March 16.	8.47 P. M.	7	Church street.....
Wednesday.....	May 3.	2 P. M.	15	Washington block, Pearl street....
Tuesday.....	May 30.	4.25 P. M.	52	102 Fourth street.....
Wednesday.....	May 31.	4 A. M.	9	17 West Webster street.
Saturday..	June 17.	11.30 P. M.	4	Granite street.....
Wednesday.....	June 21.	2.10 P. M.	4	164 Chestnut street.....
Monday.....	June 26.	11.40 P. M.	27	752 Elm street.....
Tuesday.....	July 4.	11.10 A. M.	53	Bank 'Squog river.....
Tuesday.....	August 8.	2.20 P. M.	4	Cedar, corner of Elm street.....
Saturday.....	August 19.	3.40 P. M.	6	Derry Depot.
Saturday.... .	August 26.	5.40 P. M.	31	Amoskeag.....
Tuesday.....	August 29.	1.20 A. M.	23	Spruce street. east extension.....
Wednesday. ...	August 30.	4.20 P. M.	61	Nutt road.....
Sunday.....	October 9.	1 A. M.	Still.	Epping
Wednesday.....	October 11.	1.30 A. M.	6	Suncook
Wednesday....	October 11.	10.40 A. M.	71	East Spruce street.....
Thursday.....	October 12.	11.25 A. M.	21	Rear 71 Hanover street.....
Sunday.....	October 15.	8.52 P. M.	32	Canal street, corner of Langdon....
Sunday.....	November 12.	4.30 A. M.	25	Candia road.
Monday.....	November 13.	7.15 P. M.	6	377 Chestnut street.....
Wednesday....	November 29.	9.25 A. M.	5	12 Stark Corporation.....
Friday.....	December 1.	10.20 P. M.	53	Milford street, 'Squog.....
Sunday.....	December 3.	6.10 P. M.	4	Rear of 21 Central street.....
Saturday..	December 9.	2.50 P. M.	52	Main street, 'Squog.....
Sunday.....	December 17.	2.30 A. M.	4	Elm street.....

JANUARY 1, 1882, TO DECEMBER 31, 1882.

Description.	Owners.	Occupant.
In closet, Washington blk.	Sawyer, Ainsworth, & Co.....	Louis Girard.....
Chimney.....	.....	.....
Store, brick block.....	Daniel Connor.....	Patrick McDonough.....
Fire in trunk.	John H. Maynard.....	.....
Work-room of tin-shop....	Elliot & Means.....	F. D. Thorp.....
Chimney.....	.....	.....
Third story, tenement blk.	Sawyer, Ainsworth, & Co.....	.....
Cottage house.....	John Creedan.....	John Creedan.....
Two-story house and barn.	Robinson & Stearns.....	J. E. Towle & G. E. Flanders.
Flour and grain store.....	Charles H. Hill & Co.....	C. H. Hill & Co.....
Two-story house.....	Fred G. Stark.....	{ Miss Durgin & Lawrence Foley.
Four-story brick block....	Dr. E. Custer and Horace Pettee.	Mrs. Catherine Crosby.....
Wooden store-house.....	James Baldwin & Co.....	James Baldwin & Co.....
Barn and two cottages....	J. H. Maynard, Blodgett & Clark.	{ Margaret Lyons & Peter Dailey.
.....
Waste mill.....	P. C. Cheney Paper Co.....	P. C. Cheney Paper Co.....
Cottage house and barn...	True J. Perry.....	P. C. Young & Mrs. Barnet.
Brush fire.....	.....	.....
.....
.....
Chimney.....	.....	.....
Shavings in shed.....	J. F. Parker....	.....
Hay in freight-car.....	T. L. Livermore.....	.....
House and barn.....	H. & H. R. Pettee.....	Nathan A. Sleeper.....
Tenement block.....	Isaac Huse.....	Louis Robit.....
Teneinent block.....	Stark Mills.....	Mrs. Lucy Lincoln.....
Green-house.....	F. S. Worthen & Son.....	.....
Tenement block.....	Mrs. M. A. Wallace.....	Francis Terrie & J. Gavin...
Feather bed.....	Thomas Gorman.....	Thomas Gorman.....
Drug-store.....	Daniel Connor.....	J. Oscar Burbank.....

FIRES, ALARMS, LOSSES, ETC., — *Continued.*

Day of Week.	Damage.	Insurance.	Amount uncovered	Cause.	Remarks.
Thursday.....	None.	....	....	Smoking in bed....	Exting'ed with pails.
Sunday.....	....	....	....	.....
Thursday.....	\$10.00	\$10.00	....	Overheated flue....	Exting'ed with pails.
Sunday.....	None.	....	....	Unknown.....	
Tuesday.....	None.	....	....	Ashes.....	Exting'ed with pails.
Thursday.....	....	....	....	.....
Wednesday...	30.00	30.00	....	Probably smoking..	
Tuesday.....	50.00	50.00	....	Unknown.....	
Wednesday...	3,300.00	2,500.00	800.00	Unknown.....	
Saturday.....	5,000.00	4,500.00	500.00	Incendiary.....	
Wednesday...	50 00	50.00	....	{ Overheated chim- ney.	
Monday.....	2,500.00	1,500.00	1,000.00	{ Overturning kero- sene lamp.	
Tuesday.....	None.	....	....	Fire crackers.....	Exting'ed with pails.
Tuesday.....	800.00	300.00	500.00	{ Children playing with matches.	{ Cottages but little damaged.
Saturday.....	....	....	....	.....	{ Sent Steamer No. 2, and detail of men.
Saturday..	500.00	None.	500.00	{ Spontaneous com- bustion.	
Tuesday..	1,000.00	500.00	500.00	Unknown.....	
Wednesday..	None.	....	....	.....
Sunday.....	....	....	....	.....	{ Sent Steamer No. 2, and detail of men.
Wednesday...	....	....	....	.....	{ Sent Steamer No. 2, and detail of men.
Wednesday...	....	....	....	.....
Thursday...	None.	....	....	.....	Exting'ed with pails.
Sunday....	50.00	None.	50.00	Unknown.....	
Sunday.....	1,800.00	1,000.00	800.00	Unknown...	Without city limits.
Monday.....	10.00	None.	10.00	{ Overturning kero- sene lamp.	
Wednesday...	25.00	None.	25.00	Sparks from stove..	
Friday.....	None.	....	...	Defective flue.....	{ Extinguished with garden hose.
Sunday.....	150.00	150.00	....	Ashes.....	
Saturday.....	Slight.	....	....	Unknown.....	
Sunday.....	200.00	200.00	...	{ Overheated chim- ney.	
	\$15,475.00	\$10,790.00	\$4,685.00		

NUMBER AND LOCATION OF ALARM-BOXES AND KEYS.

No. 3. — Blood's lower shop. Keys at E. P. Johnson & Co.'s office and Samuel Colby's residence, corner of Elm and Young streets.

No. 4. — Corner of Spruce and Elm streets. Keys at Granite Hotel and L. B. Bodwell & Co.'s office.

No. 5. — City Hall. Keys at City Marshal's office and G. E. Hall's drug-store.

No. 6. — Engine-house, Vine street. Keys at engine-house.

No. 7. — City Hotel. Keys at City Hotel and A. F. Perry's drug-store.

No. 8. — Elm, foot of Orange street. Keys at Wilson's drug-store and residence of Moses N. Smith, No. 1299 Elm street.

No. 9. — Corner of Elm and Webster streets. Keys at residences of H. D. Corliss and J. Freeman Clough.

No. 12. — Blood's shop. Keys at office.

No. 13. — Corner of Brook and Chestnut streets. Keys at residences of W. Jencks, Lewis Simons, and E. L. Bryant.

No. 14. — Corner of Prospect and Union streets. Keys at residences of W. Ireland and N. L. Hardy.

No. 15. — Corner of Pearl and Chestnut streets. Keys at residence of Sanborn T. Worthen, 530 Chestnut street, and Sawyer & Smith's store; No. 60 Pearl street.

No. 16. — Corner of Lowell and Union streets. Keys at residences of Rev. Dennis M. Bradley and R. H. Hassam.

No. 17. — Corner of Amherst and Beech streets. Keys at residences of H. P. Watts and Michael Connor.

No. 18. — Corner of Manchester and Maple streets. Keys at residences of H. E. Stevens, A. N. Baker, and William Perkins.

No. 21. — Corner of Merrimack and Pine streets. Keys at A. D. Smith's drug-store and residence of Mrs. J. A. Emerson.

No. 23. — Corner of Central and Beech streets. Keys at residences of E. T. James and Mrs. Josiah Stevens.

No. 24. — Corner of Massabesic and Park streets. Keys at residences of D. M. Goodwin and Nicholas Hopkins, and Atherton & Benton's store.

No. 25. — Corner of Hanover and Ashland streets. Keys at residences of S. L. Fogg, Horace Gordon, and Horace Stearns.

No. 26. — Corner of Bridge and Russell streets. Keys at McCrillis's carriage-shop and residence of John N. Chase.

No. 27. — Corner of Merrimack and Elm streets. Keys at Manchester House, Tebbetts Brothers' and Weeks & Currier's drug-store.

No. 31. — Amoskeag Village. Keys at P. C. Cheney Co.'s paper-mill and residence of Capt. J. M. Varnum.

No. 32. — Langdon Mills, corner of Canal and Brook streets. Keys at Hoyt & Co.'s paper-mill and Langdon watch-room.

No. 34. — Mechanics' Row. Keys at watch-room and W. W. Hubbard's office.

No. 35. — Stark Mills. Keys at Stark watch-room.

No. 36. — Corner of Belmont and Amherst streets. Keys at residences of John P. Lord, H. M. Tarbell, and A. G. Fairbanks.

No. 41. — Amoskeag New Mills. Keys at watch-room.

No. 42. — Manchester Mills. Keys at watch room.

No. 43. — Namaske Mills. Keys at watch-room.

No. 45. — Amory Mill counting-room. Keys at watch-room and A. J. Mayhew's, 51 Stark corporation, corner of Canal and Bridge streets.

No. 51. — S. C. Forsaith & Co.'s shop. Keys at freight depot, S. C. Forsaith's office, and Lowell's iron-foundry office.

No. 52. — Barr's brick block, 'Squog. Keys at Allen N. Clapp's store and Merrimack House.

No. 53. — Wallace's brewery. Keys at brewery office and Newell & Co.'s store.

No. 61. — Corner of Elm and Hancock streets, Bakersville. Keys at residence of H. W. Longa and M. Howlett's saloon.

No. 62. — Massabesic street, Hallsville. Keys at residence of Charles C. Chase and G. W. Dearborn.

No. 71. — Corner of Cedar and Pine streets. Keys at residences of T. Collins and Daniel Sheehan.

Also, keys will be found in the hands of all regular police.

The true time from Cambridge Observatory will be given at precisely 12.30 P. M., from John N. Baker's jewelry store, and will be denoted by one stroke of the fire-bells.

INSTRUCTIONS TO KEY-HOLDERS AND CITIZENS.

1. Upon the discovery of a fire, notice should be immediately communicated to the nearest alarm-box, keys to which are in the hands of all regular police, also of persons designated by a card on each box.

2. Key-holders, upon the discovery of a fire, or positive information of a fire, will unlock the box, pull down the hook once as far as it will go (without jerking), and then let go. Shut the door and remove the key.

3. All persons giving fire-alarms are requested to remain by the box a moment, and, if no clicking is heard in the box, pull again; if you still hear no clicking, go to the next nearest box and give the alarm from that.

4. Never signal for a fire seen at a distance. Never touch the box except to give an alarm of fire. Be sure the box is locked before leaving it. Give an alarm for no cause other than an actual fire. **DON'T GIVE AN ALARM FOR A CHIMNEY-FIRE.**

5. Never let the keys go out of your possession unless called for by the Chief Engineer. *If you change your residence or place of business where the keys are kept, return the keys to the same officer.*

6. Owners and occupants of buildings are requested to inform themselves of the location of alarm-boxes near their property, also all places where the keys are kept. Be sure the alarm is promptly and properly given.

7. Alarms will be sounded upon all the fire-bells in the city, and the number of the box will be given four times for an alarm.

8. The engineers reserve the right to give one stroke of the bells at any time; and, in case of testing the boxes, each test will be preceded by one stroke of the bells.

SCHOOL SIGNAL.

One stroke of the fire-bell closes the primary schools, and two strokes closes all the schools for the half-day upon which they may be given, at 8.15 A. M. for the forenoon, and 1.15 P. M. for the afternoon.

RULES AND REGULATIONS ADOPTED BY THE BOARD OF ENGINEERS.

1. Steamer No. 1 will report for duty on the days of its first run to all boxes ; on the days of its second run, it will report on the first alarm to boxes 3, 4, 5, 6, 7, 8, 15, 21, 27, 34, 45, 51, 71.

2. Steamer No. 4, same as above.

3. Pennacook Hose No. 1 will report for duty on the first alarm to all boxes.

4. Massabesic Hose No. 2 will report for duty on the first alarm to boxes 3, 4, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 21, 23, 24, 25, 26, 27, 36, 62, 71 ; on the second alarm, to all boxes except 52, 53, 61.

5. E. W. Harrington Hose No. 3 will report for duty on the first alarm to boxes 3, 4, 5, 27, 42, 43, 51, 52, 53 ; second alarm, to boxes 35, 41, and for an alarm from box 45, report to west end of McGregor bridge, and await orders.

6. Hook and Ladder No. 1 will report for duty on the first alarm to all boxes.

7. Steamer No. 2 to be kept as a reserve engine, to respond to a third alarm. The horses attached to the engine on its first run will return to the house on a second alarm, to be held in readiness to respond to a third alarm ; and the engine will be manned by men appointed for that purpose and attached to Pennacook Hose and Hook and Ladder companies at all times except when the engine is on duty.

8. Steamer No. 3 will also be kept as a reserve engine, to be used in case of need.

9. The whole department will report for duty in all cases on the third alarm.

10. In case of a second alarm from either of the boxes

on which the horses double on the first engine, they will immediately return and get the engine of the second run.

11. At any time when an alarm of fire is given, the engine or hose-carriage that leaves the house first will have the right to lead to the fire. NO RUNNING BY WILL BE ALLOWED, EXCEPT IN CASE OF ACCIDENT, UNDER PENALTY OF DISMISSAL OF THE DRIVER FROM THE DEPARTMENT.

12. The companies of the department not called on the first alarm will prepare for a start and hold themselves in readiness for a second or third alarm; and, if not needed, one stroke on the bells and gongs, by the engineer in charge, will be the signal for discharge to all companies remaining at the houses.

13. Two strokes on the bells will be a signal for those at a fire to limber up.

14. On the first alarm from boxes 24, 25, 26, 31, 61, 62, the horses of the second run will double on the engine of its first run.

ESTIMATED VALUE OF PROPERTY.

AMOSKEAG STEAM FIRE ENGINE NO. 1.

LOCATED ON VINE STREET.

1 first-class double-plunger engine and hose-carriage	\$4,500 00
100 feet 3 inch leather hose	140 00
1,000 feet 2 1-4 inch leather hose	1,000 00
500 feet 2 1-4 inch fabric hose	450 00
Firemen's suits	250 00
Furniture and fixtures, including harnesses	500 00
Total amount	<u>\$6,840 00</u>

FIRE KING STEAM FIRE ENGINE NO. 2.

LOCATED ON VINE STREET.

(Reserve engine.)

1 first-class double-plunger engine and hose-carriage	\$2,750 00
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E. W. HARRINGTON STEAM FIRE ENGINE NO. 3.

LOCATED ON VINE STREET.

(Reserve engine.)

1 second-class single-plunger engine and hose-carriage	\$2,750 00
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N. S. BEAN STEAM FIRE ENGINE NO. 4.

LOCATED ON VINE STREET.

1 second-class double-plunger engine and hose-carriage	\$3,500 00
50 feet rubber hose	75 00
1,500 feet leather hose	1,500 00
Firemen's suits	240 00

Furniture and fixtures, including one pair

harnesses	\$500 00
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Total amount	\$5,815 00
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PENNACOOK HOSE NO. 1.

LOCATED ON VINE STREET.

1 four-wheeled horse hose-carriage . .	\$650 00
1 horse hose sled and reel	75 00
2,500 feet leather hose	2,500 00
Firemen's suits	300 00
Furniture and fixtures, including two harnesses	440 00
Total amount	\$3,965 00

MASSABESIC HOSE NO. 2.

LOCATED ON MAPLE STREET.

1 four-wheeled horse hose-carriage . .	\$600 00
1,600 feet leather hose	1,600 00
Furniture and fixtures	60 00
Firemen's suits	200 00
Total amount	\$2,460 00

E. W. HARRINGTON HOSE NO. 3.

LOCATED AT PISCATAQUOG.

1 four-wheeled horse hose-carriage . .	\$650 00
1,800 feet leather hose	1,800 00
Firemen's suits	175 00
Furniture and fixtures, including harness	200 00
Total amount	\$2,825 00

EXCELSIOR HOOK AND LADDER NO. 1.

LOCATED ON VINE STREET.

1 truck with hooks and ladders . . .	\$1,500 00
1 Bangor extension ladder . . .	150 00
Firemen's suits	450 00
Furniture and fixtures	340 00
Total amount	<u>\$2,440 00</u>

SUPPLY WAGON.

LOCATED AT ENGINE-HOUSE ON VINE STREET.

1 supply wagon and boxes	\$125 00
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SPARE HOSE.

AT ENGINE-HOUSE, VINE STREET.

1,000 feet of hose in store-room	\$1,000 00
1,500 feet of new hose in store-room	1,800 00
Old hose (worthless for fire purposes)	40 00
Total amount	<u>\$2,840 00</u>

ENGINEERS' DEPARTMENT.

5 fire-hats	\$7 50
Furniture and fixtures	125 00
Total amount	<u>\$132 50</u>

FIRE-ALARM TELEGRAPH.

At cost	\$20,045 00
Ladders and tools	30 00
Extra poles and wire	40 00
Total amount	<u>\$20,115 00</u>

GOFFE'S FALLS HOSE-CARRIAGE.

LOCATED AT DERRY MILLS.

1 two-wheeled hose-carriage . . .	\$200 00
400 feet linen hose	200 00
2 hose-pipes	12 00
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Total amount	\$412 00

AMOSKEAG HOSE-CARRIAGE.

LOCATED AT P. C. CHENEY CO.'S PAPER-MILL.

1 two-wheeled hose-carriage . . .	\$200 00
300 feet leather hose	150 00
2 hose-pipes	12 00
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Total amount	\$362 00

RECAPITULATION.

Amoskeag Steam Engine No. 1 . . .	\$6,840 00
Fire King Engine No. 2	2,750 00
E. W. Harrington Steam Engine No. 3 . . .	2,750 00
N. S. Bean Steam Engine No. 4	5,815 00
Pennacook Hose No. 1	3,965 00
Massabesic Hose No. 2	2,460 00
E. W. Harrington Hose No. 3	2,825 00
Excelsior Hook and Ladder No. 1	2,440 00
Supply Wagon	125 00
Store-room	2,840 00
Engineers' Department	132 50
Fire Alarm	20,115 00
Goffe's Falls Hose Carriage	412 00
Amoskeag Hose Carriage	362 00
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Total amount	\$53,831 50

NAMES AND RESIDENCES OF THE MEMBERS OF THE FIRE DEPARTMENT.

BOARD OF ENGINEERS.

NAME.	Rank.	Occupation.	Residence.
Thomas W. Lane.....	Chief.....	Bookseller.....	1937 Elm St.
Andrew C. Wallace.....	Assistant	Lumber Dealer.....	313 Granite St.
Benjamin C. Kendall ...	Assistant	Master Mechanic.....	311 Central St.
Sam C. Lowell.....	Assistant and Clerk	Mechanic	5 Machine-Shop Blk.
Orin E. Kimball	Assistant	Wool and L'ther Deal'r	17 Harrison St.

AMOSKEAG STEAM FIRE-ENGINE COMPANY NO. 1.

House on Vine Street.

NAME.	Rank.	Occupation.	Residence.
John A. Barker.....	Foreman	City Messenger.....	39 Market St.
Jonathan T. Underhill...	Assistant Foreman..	Manufacturer	20 Stark St.
Will A. Butterfield.....	Clerk.....	"	45 Market St.
Henry H. Glines.....	Engineer.....	Machinist.....	13 Mechanic St.
George R. Simmons.....	Assistant Engineer.	Asst. Supt. Streets...	82 Pennacook St.
George W. Butterfield...	Driver	Teamster	28 Vine St.
Frank E. Stearns.....	Hoseman	Painter	389 Park St.
Artemas C. Barker.....	"	Currier	494 Pine St.
James R. Carr	"	Painter	14 Orange St.
John E. Wilson.....	"	Mechanic.....	13 Mechanic St.
Henry T. Stevens.....	"	Clerk.....	102 Myrtle St.
Charles F. McCoy.....	"	Mechanic	5 M. S. B.
John B. Hall.....	"	Druggist.....	79 Walnut St.
Joseph H. Gould....	"	Dresser.....	20 Stark St.

N. S. BEAN STEAM FIRE ENGINE COMPANY NO. 4.

House on Vine Street.

NAME.	Rank.	Occupation.	Residence.
Eugene S. Whitney.....	Foreman.....	Machinist.....	101 Orange St.
Charles E. Ham.....	Asst. Foreman.....	Carpenter.....	44 M. S. B.
Edgar G. Abbott.....	Clerk.....	Machinist.....	543 Chestnut St.
Fred S. Bean.....	Engineer.....	".....	101 Orange St.
Thomas F. Dodge.....	Asst. Engineer.....	".....	545 Chestnut St.
Jeremiah Lane.....	Driver.....	Teamster.....	20 Vine St.
Almus B. Cushing.....	Hoseman.....	".....	141 Laurel St.
William H. Dodge.....	".....	Manufacturer.....	874 Elm St.
George W. Bacon.....	".....	Carpenter.....	45 Stark Corp.
Alfred Nearborn.....	".....	".....	Cor. E. High & Jane.
John Martin.....	".....	Machinist.....	22 M. S. B.
Albert Merrill.....	".....	".....	101 Orange.
John W. Chase.....	".....	Manufacturer.....	240 Merrimack St.
George C. Hoyt.....	".....	Mason.....	10 Nashua St.

PENNACOOK HOSE COMPANY NO. 1.

House on Vine Street.

NAME.	Rank.	Occupation.	Residence.
Albert Maxfield.....	Foreman.....	Belt Maker	23 M. S. B.
Clarence D. Palmer.....	Asst. Foreman.....	Marble Worker.....	347 Central St.
Joseph E. Merrill.....	Clerk	Currier	85 Walnut St.
Walter L. Blenus.....	Driver	Teamster.....	26 Vine St.
George H. Porter.....	Hoseman.....	Carpenter.....	277 Laurel St.
John M. Plaisted.....	"	Boot and Shoe Dealer..	1083 Elm St.
Will G. Chase	"	Photographer	696 Elm St.
Lyman M. Aldrich.....	"	Carpenter.....	375 Park St.
Joseph H. Alsop	"	Manufacturer	1357 Elm St.
Daniel W. Morse.....	"	Machinist.....	1419 Elm St.
George W. Cheney.....	"	"	1348 Elm St.
Gilbert A. Sackett.....	"	Weaver	35 M. S. B.
Edwin A. Durgin.....	"	Machinist.....	44 Manchester Corp.
Samuel A. Hill	"	Carpenter.....	50 Douglas St. (P.)
Edwin E. Weeks.....	"	Machinist.....	50 Amoskeag Corp.
Albert A. Puffer	"	Teamster	544 Chestnut St.
Charles W. Brown	"	Clerk	18 Hazel St.
Martin W. Ford.....	"	Molder	546 Chestnut St.
John E. Chase.....	"	Carpenter... ..	35 M. S. B.
Henry B. Porter	"	Teamster.....	Hanover, c. Beacon.

MASSABESIC HOSE COMPANY NO. 2.

House on Maple Street.

NAME.	Rank.	Occupation.	Residence.
John F. Seaward	Foreman	Carpenter	27 Warren St.
Revilo G. Houghton....	Asst. Foreman	Gas Fitter	288 Bridge St.
Parker W. Hannaford. .	Clerk	Carpenter	256 Lowell St.
Walter Seaward	Driver	Teamster	Maple St.
Henry G. Seaman	Hoseman	Carpenter	14 South St.
Joseph W. Batchelder..	"	"	413 Pine St.
William S. McLeod	"	Grainer	66 Nashua St.
Simeon R. Stearns	"	Machinist	63 Arlington St.
Alphonso E. Foster	"	Carpenter	45 M. S. B.
George W. Seaward	"	Machinist	19 Warren St.
Henry H. Wilcox	"	Plumber	195 Hanover St.
Albert E. Batchelder....	"	Carpenter	313 Amherst St.

E. W. HARRINGTON HOSE COMPANY NO. 3.

House on Clinton Street, 'Squog.

NAME.	Rank.	Occupation.	Residence.
Horatio Fradd	Foreman	Grocer	64 Dover St.
John T. G. Dinsmore....	Asst. Foreman	Carpenter	48 Dover St.
Joseph Schofield	Clerk	Wool Sorter	392 Granite St.
William Doran	Steward	Machinist	60 Parker St.
John McDerby	Hoseman	Roofer	503 Granite St.
Ruel G. Manning	"	Carpenter	53 Douglas St.
Edward McDerby	"	Roofer	155 Winter St.
Andrew C. Wallace, Jr..	"	Lumber Surveyor....	79 Parker St.
Edward Flanagan	"	Carpenter	21 Central St.
Robert McFarland	"	Cooper	81 Parker St.
John Patterson	"	Engraver	Cor. Sec. & Cent. St.
William McCombie	"	Laborer	161 Winter St.

EXCELSIOR HOOK AND LADDER COMPANY NO. 1.

House on Vine Street.

NAME.	Rank.	Occupation.	Residence.
Warren Harvey	Foreman	Supt. of Streets.....	474 Hanover St.
James Orrill.....	Asst. Foreman ...	Barber	60 Prospect St.
George E. Glines.....	Clerk.	Machinist	310 Central St.
Augustus J. Robie	Treasurer	Teamster	30 Brook St.
Charles N. Denyon.....	Driver	"	8 Vine St.
John N. Chase.....	Fireman	Overseer	268 Bridge St.
John Wilson.....	"	Carpenter	12 M. S. B.
Hiram P. Young	"	Slater	33 Dutton St.
Edward A. G. Holmes ...	"	Carpenter	224 Manchester St.
George H. Dudley.....	"	"	159 Laurel St.
Luther J. Flint	"	"	4 Dutton St.
Harrison H. Cole	"	"	Main & McGregor.
Winfield S. Leavitt.....	"	"	8 Weeks' Block.
Jesse B. Nourse	"	Teamster	Union cor. Appleton
Charles H. Cross.....	"	Overseer	8 Langdon Corp.
Andrew C. Wiggin	"	Mason	142 Merrimack St.
Dillwyn Breed.....	"	Belt Maker	335 Chestnut St.
George M. Jones.....	"	Gardener	1051 Elm St.
Milo B. Wilson..	"	Mason	2 Senter's Block.
Samuel F. Adams	"	Expressman	295 Chestnut St.
Roscoe Dyer.....	"	Machinist	29 Amoskeag Corp.
Sanborn T. Worthen....	"	Carpenter	530 Chestnut St.
Josiah D. Andrews	"	"	373 Hanover St.
Jerome J. Lovering.....	"	"	78 Amoskeag Corp.
Oscar P. Stone.....	"	Grocer	307 Chestnut St.

LOCATION OF HYDRANTS.

Amherst, northwest corner of Vine street.
 Amherst, southwest corner of Chestnut street.
 Amherst, northwest corner of Pine street.
 Amherst, northwest corner of Union street.
 Amherst, northwest corner of Walnut street.
 Amherst, northwest corner of Beech street.
 Amherst, northwest corner of Maple street.
 Amherst, northwest corner of Lincoln street.
 Amherst, northwest corner of Ashland street.
 Amherst, northwest corner of Hall street.
 Appleton, northwest corner of Chestnut street.
 Appleton, northwest corner of Pine street.
 Appleton, northwest corner of Union street.
 Arlington, northwest corner of Cross street.
 Arlington, northwest corner of Warren street.
 Arlington, northwest corner of Ashland street.
 Ash, front of No. 32.
 Auburn, northeast corner of Elm street.
 Auburn, front of No. 40.
 Auburn, northwest corner of Chestnut street.
 Auburn, northwest corner of Pine street.
 Auburn, northwest corner of Union street.
 Bedford, northwest corner of Granite street.
 Bedford, near No. 36 M. P. W. corporation.
 Bedford, northwest corner of Central street.
 Beech, northwest corner of Park street.
 Beech, front of No. 584.
 Birch, northwest corner of Lowell street.
 Birch, northwest corner of Washington street.
 Blodget, front of primary-school house.
 Blodget, northwest corner of Chestnut street.
 Blodget, northwest corner of Pine street.

- Blodget, northwest corner of Union street.
- Bridge, front of No. 26.
- Bridge, northwest corner of Chestnut street.
- Bridge, northwest corner of Union street.
- Bridge, northwest corner of Walnut street.
- Bridge, northwest corner of Beech street.
- Bridge, northwest corner of Ash street.
- Bridge, northwest corner of Maple street.
- Bridge, near No. 242.
- Bridge, northwest corner of Russell street.
- Bridge, northwest corner of Linden street.
- Brook, northwest corner of P. Adams's lot.
- Brook, northwest corner of Chestnut street.
- Brook, northwest corner of Pine street.
- Brook, northwest corner of Union street.
- Brook, northwest corner of Beech street.
- Canal, near east corner of Depot street.
- Canal, near office door of M. L. W.
- Cedar, front of No. 36.
- Cedar, northwest corner of Chestnut street.
- Cedar, northwest corner of Pine street.
- Cedar, northwest corner of Union street.
- Cedar, northwest corner of Beech street.
- Cedar, northwest corner of Maple street.
- Central, northwest corner of Chestnut street.
- Central, northwest corner of Pine street.
- Central, northwest corner of Union street.
- Central, near gate, Merrimack square.
- Central, northwest corner of Beech street.
- Central, northwest corner of Maple street.
- Central, northwest corner of Lincoln street.
- Central, front of No. 374.
- Central, northwest corner of Wilson street.
- Central, northwest corner of Hall street.

- Chestnut, northwest corner of Lowell street.
- Chestnut, opposite High street.
- Chestnut, northwest corner of Pearl street.
- Chestnut, northwest corner of Orange street.
- Chestnut, northwest corner of Myrtle street.
- Chestnut, northwest corner of Prospect street.
- Concord, opposite Vine street.
- Concord, northwest corner of Chestnut street.
- Concord, northwest corner of Union street.
- Concord, northwest corner of Walnut street.
- Concord, northwest corner of Beech street.
- Concord, northwest corner of Nashua street.
- Concord, northwest corner of Maple street.
- Concord, northwest corner of old Amherst street.
- Concord, northwest corner of Ashland street.
- Concord, northwest corner of Hall street.
- Concord, northwest corner of Belmont street.
- Dean, northeast corner of Canal street.
- Dean, northwest corner of Elm street.
- Depot, northeast corner of Elm street.
- Depot, west of Franklin street.
- Elm, front of Fisk bookstore.
- Elm, northwest corner of Salmon street.
- Elm, northwest corner of Cove street.
- Franklin, opposite Middle street.
- Granite, northeast corner of Canal street.
- Granite, northwest corner of Elm street.
- Granite, near Franklin street.
- Granite, east end of Granite bridge.
- Grove, corner of Elm street.
- Hancock, northwest corner of River road.
- Hancock, near brewery.
- Hanover, front of Opera House.
- Hanover, northwest corner of Chestnut street.

- Hanover, northwest corner of Pine street.
 Hanover, northwest corner of Union street.
 Hanover, northwest corner of Beech street.
 Hanover, northwest corner of Maple street.
 Hanover, northwest corner of Lincoln street.
 Hanover, northwest corner of Ashland street.
 Hanover, northwest corner of Hall street.
 Hanover, northwest corner of Belmont street.
 Harrison, opposite No. 13.
 Harrison, northwest corner of Chestnut street.
 Harrison, northwest corner of Pine street.
 Harrison, northwest corner of Union street.
 Harrison, northwest corner of Beech street.
 Hollis, northeast corner of Canal street.
 Hollis, northeast corner of Hobbs street.
 Hollis, northwest corner of Elm street.
 Kidder, northeast corner of Canal street.
 Kidder, northeast corner of Hobbs street.
 Kidder, northwest corner of Elm street.
 Kidder court, northwest corner of Elm street.
 Langdon, northwest corner of Elm street.
 Langdon, northeast corner of Canal street.
 Laurel, northwest corner of Pine street.
 Laurel, northwest corner of Union street.
 Laurel, northwest corner of Beech street.
 Laurel, northwest corner of Maple street.
 Laurel, northwest corner of Lincoln street.
 Laurel, near No. 244.
 Laurel, northwest corner of Wilson street.
 Laurel, near Belmont.
 Lowell, northwest corner of Beech street.
 Lowell, northwest corner of Ash street.
 Lowell, northwest corner of South street.
 Lowell, front of No. 276.

- Lowell, northwest corner of Wilson road.
 Lowell, northwest corner of Ashland street.
 Manchester, front of James Bros.' stable.
 Manchester, northwest corner of Chestnut street.
 Manchester, northwest corner of Pine street.
 Manchester, northwest corner of Union street.
 Manchester, northwest corner of Beech street.
 Manchester, northwest corner of Maple street.
 Manchester, northwest corner of Lincoln street.
 Manchester, northwest corner of Wilson street.
 Manchester, northwest corner of Hall street.
 Manchester, northwest corner of Belmont street.
 Maple, northwest corner of Lowell street.
 Maple, front of No. 530.
 Market, near Canal street.
 Market, near second back street west of Elm street.
 Market, northwest corner of Elm street.
 Massabesic, northwest corner of old Falls road.
 Massabesic, southeast corner of Taylor street.
 Massabesic avenue.
 Massabesic, near Mammoth road.
 Mammoth road.
 Mechanic, northeast corner of Canal street.
 Mechanic, near second back street west of Elm street.
 Mechanic, northwest corner of Elm street.
 Merrimack, opposite gate, Merrimack square.
 Merrimack, northwest corner of Chestnut street.
 Merrimack, northwest corner of Pine street.
 Merrimack, northwest corner of Union street.
 Merrimack, northwest corner of Beech street.
 Merrimack, northwest corner of Maple street.
 Merrimack, northwest corner of Lincoln street.
 Merrimack, near No. 362.
 Merrimack, northwest corner of Wilson street.

Merrimack, northwest corner of Hall street.

Merrimack, near Belmont street.

Middle, northeast corner of Canal street.

Middle, near 67 Amoskeag corporation.

Monroe, northwest corner of Elm street.

Myrtle, opposite No. 33.

Myrtle, northwest corner of Pine street.

Myrtle, northwest corner of Union street.

Myrtle, northwest corner of Walnut street.

Myrtle, northwest corner of Beech street.

Myrtle, northwest corner of Ash street.

Myrtle, northwest corner of Maple street.

Myrtle, northwest corner of Oak street.

Myrtle, northwest corner of Russell street.

North, northwest corner of Bay street.

Orange, opposite Clark's avenue.

Orange, northwest corner of Pine street.

Orange, northwest corner of Union street.

Orange, northwest corner of Walnut street.

Orange, northwest corner of Beech street.

Park, near No. 36.

Park, northwest corner of Chestnut street.

Park, northwest corner of Union street.

Park, northwest corner of Maple street.

Park, northwest corner of Lincoln street.

Park, northwest corner of Wilson street.

Park, east end.

Pearl, northwest corner of Clark's avenue.

Pearl, northwest corner of Pine street.

Pearl, northwest corner of Union street.

Pearl, corner of Beech street.

Pearl, corner of Walnut street.

Pearl, northwest corner of Ash street.

Pearl, northwest corner of Maple street.

Pearl, northwest corner of Oak street.
 Pearl, northwest corner of Russell street.
 Pearl, northwest corner of Linden street.
 Pennacook, northwest corner of Chestnut street.
 Pennacook, northwest corner of Pine street.
 Pennacook, northwest corner of Union street.
 Pine, northwest corner of Park street.
 Pine, northwest corner of Hanover street.
 Pine, northwest corner of Concord street.
 Pine, northwest corner of Lowell street.
 Pine, northwest corner of High street.
 Pine, northwest corner of Bridge street.
 Pleasant, northeast corner of Canal street.
 Pleasant, near 35 Manchester corporation.
 Pleasant, northwest corner of Franklin street.
 Pleasant, northwest corner of Elm street.
 Prospect, between Elm and Chestnut streets.
 Prospect, northwest corner of Pine street.
 Prospect, northwest corner of Union street.
 Prospect, northwest corner of Beech street.
 Prospect, northwest corner of Ash street.
 Prospect, northwest corner of Maple street.
 Prospect, northwest corner of Oak street.
 Prospect, northwest corner of Russell street.
 River road, north of Webster street.
 Spring, northeast corner of Canal street.
 Spring, northwest corner of Charles street.
 Spring, northwest corner of Elm street.
 Spruce, northwest corner of Chestnut street.
 Spruce, northwest corner of Pine back street.
 Spruce, northwest corner of Union street.
 Spruce, northwest corner of Beech street.
 Spruce, northwest corner of Maple street.
 Spruce, northwest corner of Lincoln street.

Spruce, between Chestnut and Elm streets.
 Stark, northeast corner of Canal street.
 Stark, near 13 Stark corporation
 Stark, northwest corner of Elm street.
 State, northwest corner of Granite street.
 State, opposite 57 Manchester corporation.
 State, opposite 13 Manchester corporation.
 State, corner of West Central street.
 Summer, corner of Elm street.
 Union, northwest corner of Lowell street.
 Union, northwest corner of High street.
 Valley, corner of Elm street.
 Valley, corner of Willow street.
 Walnut, northwest corner of Lowell street.
 Walnut, opposite No. 79.
 Water, near 38 Amoskeag corporation.
 Water, northwest corner of Elm street.
 Webster, northwest corner of Chestnut street.
 Webster, northwest corner of Elm street.
 Webster, corner of Adams street.
 Webster, northwest corner of Union street.
 Webster, northeast corner of River road.
 West Appleton, northwest corner of Elm street.
 West Auburn, northeast corner of Canal street.
 West Bridge, northeast corner of Canal street.
 West Bridge, northeast corner of Hobbs street.
 West Bridge, northwest corner of Elm street.
 West Brook, northeast corner of Canal street.
 West Brook, northwest corner of Elm street.
 West Cedar, northeast corner of Canal street.
 West Cedar, northwest corner of Elm street.
 West Central, northeast corner of Canal street.
 West Central, northwest corner of Elm street.
 West Merrimack, northeast corner of Canal street.

West Merrimack, near 111 Amoskeag corporation.
 West Merrimack, northwest corner of Franklin street.
 West Merrimack, northwest corner of Elm street.
 West Pennacook, northwest corner of Elm street.
 Wilson, corner of Park street.
 Young, corner of Elm street.

PISCATAQUOG.

A, corner of South Main street.
 Bedford road, near Huntress's.
 Bowman street, opposite cemetery.
 C street, corner of Bedford road.
 Clinton, corner of Dover street.
 Clinton, corner of South Main street.
 Center, corner of South Main street.
 Center opposite school-house.
 Center, corner River street.
 Douglas, corner of Quincy street.
 Douglas, corner of Green street.
 Douglas, corner of Barr street.
 Douglas, corner of West street.
 Douglas, corner of Main street.
 Douglas, east of Main street.
 Ferry, corner of Main street.
 Granite, corner of Quincy street.
 Granite, corner of Green street.
 Granite, corner of Barr street.
 Granite, corner of West street.
 Granite, corner of Dover street.
 Granite, corner of Main street.
 Granite, corner of Second street.
 Granite, corner of River street.
 Main, opposite Rice's house.
 Mast, corner of South Main street.

Mast, corner of Bowman street.
 Mast, between Bowman and South Main streets.
 Mast, opposite J. C. Smith's house.
 McGregor, opposite "Reed" house.
 Milford, corner of South Main street.
 Milford, corner of Bowman street.
 Milford, corner of old Bedford road.
 School, corner of Main street.
 School, corner of Walker street.
 School, corner of Ferry street.
 Sullivan, corner of Main street.
 Third, corner of Ferry street.
 Walker, corner of River road.
 Walker, corner of Third street.
 Walker, corner of Parker street.
 Walker, near corner of South Main street.
 Wayne, near corner of Main street.
 Wayne, near corner of Beauport street.
 Winter, corner of South Main street.

AMOSKEAG.

Main, at Robinson & Stearns's works.
 Main, near brick school-house.
 Main, corner of Goffstown road.
 Main, opposite John E. Stearns's.
 Main, near Hiram Stearns's.
 Mill, near paper-mill.
 Mill, corner of Main street.
 Varnum, corner of Main street.

In addition to the above, there are three private hydrants that are available in case of need : —

One at S. C. Forsaith & Co.'s machine-shop.
 One at Lowell's iron foundry.
 One at J. Hodge's wood-working establishment.
 Making 340 in all.

REPORT
OF THE
OVERSEERS OF THE POOR.

REPORT

OF THE

OVERSEERS OF THE POOR.

To the Mayor, Aldermen, and Common Council of the City of Manchester : —

In compliance with the ordinances of said city, the Overseers of the Poor herewith present their annual report for the year 1882.

The whole number of families that have received more or less assistance off the farm during the past year has been thirty-four, consisting of eighty-nine persons, all of whom have a settlement in this city.

The overseers of the poor disbursed for paupers off the farm from the several wards of the city, as follows : —

Ward number one	.	.	.	\$25 00
Ward number two	.	.	.	84 00
Ward number three	.	.	.	111 00
Ward number four	.	.	.	187 13
Ward number five	.	.	.	1,240 08
Ward number six	.	.	.	263 32
Ward number seven	.	.	.	72 00
Ward number eight	.	.	.	146 00
<hr/>				\$2,128 53

The overseers of the poor have disbursed the New Hampshire Insane Asylum and State Industrial School, and for paupers off the farm that live in other towns in this state, and who have settlement in this city, as follows:—

State Industrial School for board of inmates, 1882	\$239 00	
New Hampshire Insane Asylum for board of inmates, 1882	691 45	
Lewis K. Mead for medicine, to June, 1882	84 47	
Temple & Farrington for blanks, stationery, and postage stamps, for 1883	18 33	
Town of Lancaster for support of Benson Joy for 1881-1882	145 66	
Town of Loudon for support of Sarah A. Heselton for 1882	10 00	
	<hr/>	\$1,188 91

The overseers of the poor have disbursed for paupers off the farm that have no settlement in this city, as follows:—

State Industrial School for board of inmates (charged to county of Hillsborough)	\$2,477 07	
Charged to David Nutt for support of his abandoned wife, medicine, doctor, and board (suit entered) .	311 50	
Charged to town of Bath for support of Mrs. Paige (to be recovered by suit)	54 00	

Charged to town of Bath for legal
notice served on town officers .

\$3 24

————— \$2,845 81

All of which is respectfully submitted.

H. B. PUTNAM, *Chairman ex-officio*,
WILLIAM H. MAXWELL, *Clerk*, Ward 1.
GEORGE H. COLBY, Ward 2,
JAMES SUTCLIFFE, Ward 3,
HORACE GORDON, Ward 4,
GEO. F. SHEEHAN, Ward 5,
ROBERT HALL, Ward 6,
ELBRIDGE G. WOODMAN, Ward 7,
I. B. FARNUM, Ward 8,

Overseers of the Poor.

REPORT

OF THE

JOINT STANDING COMMITTEE ON CITY FARM.

REPORT

OF THE

JOINT STANDING COMMITTEE ON CITY FARM.

To the City Councils of the City of Manchester :—

The Mayor and Joint Standing Committee on the City Farm herewith present their annual report for the year ending Dec 31, 1882:—

Live stock	\$1,234 50
Hay, grain, and produce	1,989 03
Carriages and farming implements	1,752 25
Household furniture	787 30
Provisions and fuel	801 29
Bedding and wearing apparel	668 82
Miscellaneous	34 00
	<hr/>
	\$7,267 19
Expenses of farm	\$5,464 57
Receipts	2,281 87
	<hr/>
	\$3,182 70
Bills receivable	101 97
	<hr/>
	\$3,080 73

Interest on farm	\$1,000 00
	<hr/>
	\$4,080 73
Difference in stock	750 02
	<hr/>
	\$3,330 71
Permanent improvements	580 00
	<hr/>
Cost of board of paupers and prisoners	\$2,750 71

JOHN HOSLEY,
JOHN H. MAYNARD,
SAMUEL LUNT,
JAMES S. BACHELER,
Joint Standing Committee on City Farm.

REPORT
OF THE
COMMITTEE ON CEMETERIES.

REPORT

OF THE

COMMITTEE ON CEMETERIES.

To the City Government of Manchester, N. H. : —

GENTLEMEN, — In obedience to the requirements of law, the Committee on the Valley and Pine Grove cemeteries herewith present their annual report for the year ending December 31, 1882. There are quite a number of cemeteries and burial grounds within the city limits; the preservation and care of them all are matters of deep and abiding interest to all our people. Though but few of the cemeteries and burial grounds are under any supervision of the city councils, yet all these silent places of the dead must ever be objects of special and sacred regard of our citizens generally. At the beginning of the year we appointed a sub-committee of three each for the Valley and Pine Grove cemeteries, granting them full power to employ superintendents and to make all such arrangements as in their opinion were expedient for the proper care, preservation, and improvements of the grounds. We annex to this the respective reports of the sub-committee, both of which contain all the details in regard to both cemeteries.

VALLEY CEMETERY.

The Sub-Committee of the Valley Cemetery respectfully submit the following report for the year 1882:—

Owing to the continued interruption of the superintendent by persons seeking information concerning the location of lots, and contracting for the care of the same with labor required, it was deemed expedient to engage the superintendent for the year, thus securing his services at a much less sum per day than he had been previously paid. The extra labor required of the superintendent necessitated the employing of an assistant during a portion of the season. It is now the duty of the superintendent to attend to the digging of all graves, care for all lots, also to collect all revenues accruing from the grounds, reporting the same to the sub-committee monthly (for an account of which see financial statement). The new road-way has been improved so that carriages now pass to all parts of the grounds with comparative ease. The "cottage" has been moved to a more desirable location, an even exchange of lots being made. The building has been remodeled, the changes made making it much more convenient. A board fence has been built and painted, which extends across the west side of the grounds. The bridges have been repaired and also painted, much improving the general appearance. The main water-pipe proving insufficient, new pipe has been substituted, the old being sold, and relaid where such piping could be used. Additional pipe has also been laid to meet the numerous demands, so that water is now available to nearly all parts of the Valley. The building of the usual amount of iron fence has been dispensed with, owing to the limited appropriations the past year.

We trust that a sufficient sum will be appropriated the

coming year to meet the current expenses, and also to completely inclose the grounds with suitable fencing.

Mr. F. B. Balch, the acceptable superintendent of the previous year, was retained, giving to the committee and all who required his services the usual degree of satisfaction.

Receipts.

Appropriations	\$1,000 00
Wood sold	104 88
Water rent	69 75
Digging graves	83 00
Tomb fees	58 50
Care of lots	156 75
Amount transferred from reserve fund . .	880 93
	<hr/>
	\$2,353 81

Expenditures.

Care of grounds	\$667 79
Manchester Water-Works	52 40
Warren Harvey, teaming	49 65
James Emerson, grading	231 74
George Whitford, sand	62 50
L. B. Bodwell & Co., canvas	8 25
A. J. Sawyer, lumber	444 01
Pike & Heald, pipe and labor	478 54
Daniels & Co.	1 20
John B. Varick	21 20
J. J. Abbott	7 53
P. W. Follansbee & Son	25 00
Palmer & Garmon	75 07
J. R. Carr, painting	133 60

Henry Fisk	\$81 33
Balance to new account	14 00
	<hr/>
	\$2,353 81

Respectfully submitted.

HOLMES R. PETTEE,
WM. G. HOYT,
JOSEPH KIDDER,
Committee on Valley Cemetery.

PINE GROVE CEMETERY.

The Committee on Pine Grove Cemetery offer the following report of their doings for the year 1882:—

The grounds have been under the care of Mr. B. A. Stearns, whose efficiency deserves favorable mention. As the area of improved lots increases, the labor and care increase in corresponding proportion, consequently a larger amount of work has been done than in any year before.

We have continued the graveling of the avenues and walks, and following the same course for a very few years longer, the drives will all have been put in a fine condition. The purchase of several acres of excellent gravel upon the east of the Calef road, by the city, has materially reduced the cost the past year.

Several fine monuments have been completed, which adds greatly to the appearance and attraction of the grounds, and we have endeavored to care for all the surroundings of such monuments, so far as the city was responsible for them, that we might show a harmonious whole.

The plat of ground appropriated last year for improvement under a plan somewhat new to our cemeteries, known as the "landscape lawn" plan, has been nearly completed. Thus far we have our anticipations more than realized, and

we are satisfied that when fully perfected, and put to its uses, it will fully meet the approval of our citizens. This work has been done in connection with the other work of the cemetery, and no strict account has been kept of the cost of preparing this section, but we estimate it to be about fifteen hundred dollars. The drouth so far interfered with its completion that the final location of the bounds of lots, as fixed by the engineer, has been postponed until spring, consequently no deeds have been given of any lots, and no money has been received from that source. Lots have been selected by individuals, which will be conveyed by deed as early in the spring as suitable bounds can be fixed, and the payments for those already thus selected will amount to about \$3,000.

The rule adopted by the Committee on Cemeteries requiring undertakers to give all orders for the digging of graves to the superintendent of the grounds, both at the Valley and Pine Grove cemeteries, we are of opinion has been of marked advantage. It has brought the work to be done to the one who is responsible for the care of the grounds, and as a consequence the prompt removal of the surplus earth has been secured, and the good appearance of the grounds promoted. It has also brought some money into the treasury from which to pay the labor, which, when not engaged in this particular duty, has been employed in other work upon the grounds, and we think it wise to continue this rule in the future.

We are not unmindful of the fact that the area of the present grounds is steadily being taken for burial purposes, and not many years will elapse before what now constitutes the Pine Grove Cemetery will all have been appropriated, and we must look elsewhere for suitable grounds for this purpose. The present time offers an opportunity to secure a suitable addition sufficient for many years to come, at a

cost much lower than we may be able to secure it if it is delayed much longer, and we respectfully invite the attention of the city councils to this subject.

The financial statement for the year is as follows : —

Receipts.

Balance to account of Pine Grove Cemetery	
from year 1881	\$1,129 39
Appropriation	1,500 00
From sale of lots	1,167 16
Interest collected on unpaid deeds	30 22
Sale of logs, wood, and undertakers' fees	577 26
	<hr/>
	\$4,404 03

Expenditures.

The amount expended has been	\$3,557 84
Balance on hand December 30, 1882	846 19
	<hr/>
	\$4,404 03

A detailed account of the expenditures may be found in the report of the city treasurer.

A. H. DANIELS,
CHAS. E. BALCH,
Committee on Pine Grove Cemetery.

TREASURER'S REPORT.

To the Committee on Cemeteries:—

GENTLEMEN,—I herewith submit to you my tenth annual report of all money which I have received on account of the cemeteries for the year ending December 31, 1882.

PINE GROVE CEMETERY.

To cash received for 52 lots sold . . .	\$1,167 16
interest . . .	30 22
logs sold . . .	127 38
	<hr/>
	\$1,324 76
By cash paid city treasurer	1,324 76

Mr. B. A. Stearns, superintendent of Pine Grove Cemetery, has paid the city treasurer during the year \$449.88, which sum did not pass through my hands, and was received for wood sold and for digging graves, which sum, added to the above, is \$1,774.64, paid to city treasurer during year.

I have twenty-one deeds written and ready for delivery, for which about \$480 will be received. I have good reason to expect that more than one-half these deeds will be delivered and paid for prior to April next. All the money which I have received on account of cemeteries I have paid to the city treasurer; and all the bills of expenditures have been paid by the city treasurer. All the vouchers and details will be found elsewhere in the city report for 1882.

You will pardon me for again earnestly calling your at-

tention to the wisdom and propriety of creating a permanent fund sufficiently large, so that the interest upon which will keep the grounds in good condition hereafter, at a time when but a small sum will be realized from the sale of lots. There have been no lots sold in the "Valley" during the year, nor any money received by me on account thereof.

J. F. JAMES,
Treasurer of Committee on Cemeteries.

I hereby certify that I have examined the accounts of Jacob F. James, treasurer of the Pine Grove Cemetery, and find the same correctly cast and properly vouched to the amount of \$1,774.64, including \$449.88 paid by B. A. Stearns, superintendent.

N. P. KIDDER,
City Auditor.

TIMOTHY W. CHALLIS, *Chairman*,
SYLVANUS B. PUTNAM, *Clerk*,
J. F. JAMES, *Treasurer*,
JOHN HOSLEY,
SAMUEL THOMPSON,
GEO. B. SMITH,
HENRY C. RANNO,
A. H. DANIELS,
J. A. WESTON,
J. L. STEVENS,
WM. G. HOYT,
JOSEPH KIDDER,
HOLMES R. PETTEE,
CHAS. E. BALCH,
J. B. CHASE,
A. W. QUINT,

Committee on Cemeteries.

R E P O R T
OF THE
TRUSTEES OF THE CEMETERY FUND.

To the City Councils of the City of Manchester : —

GENTLEMEN, — The Trustees of the Cemetery Fund have the honor to present herewith their third annual report. In consequence of circumstances beyond their control, the committee on cemeteries were unable to complete the lots, referred to in our last annual report, ready for sale till late in the season. As a result, no funds have been received from this source, as was anticipated, nor has the fund been increased from any quarter during the year. There are good reasons for believing that a considerable sum will be placed in the hands of the trustees the coming year.

Respectfully submitted.

JAMES A. WESTON, *Chairman*,
P. C. CHENEY,
H. B. PUTNAM, *Mayor*,
Trustees of the Cemetery Fund.

January 1, 1883.

ACCOUNT

OF

SYLVANUS B. PUTNAM,

CITY TREASURER,

FROM DECEMBER 31, 1881, TO DECEMBER 31, 1882.

Dr. Sylvanus B. Putnam, Treasurer, in account with the

To	Cash in the Treasury, January 1, 1882	\$38,588 81
	Temporary Loan	136,000 00
	Insurance Tax	784 87
	Railroad Tax	12,704 59
	Savings-bank Tax	41,948 89
	Literary Fund	2,059 88
	Board of Inmates at State Reform School	3,141 89
	City Farm	2,281 97
	City Teams	2,536 25
	Stark Mills	3,097 25
	Sewer Licenses	1,186 20
	N. Michey, overdraft, S. & D.	2 50
	B. L. & C. R. R., labor on bridge	14 37
	Champion Iron Fence Co., freight ret. (commons)	12 42
	Weston & Hill, overdraft, incidental expenses	16
	S. Hovey, overdraft, incidental expenses	75
	Freeman Higgins, land sold	150 00
	Amoskeag Manufacturing Co.	2,000 00
	E. W. Perkins, land sold	100 00
	George S. Clough, use of city excavator	18 00
	Frank P. Colby, old lumber	13 75
	N. C. Hunt, old lumber	75 00
	C. D. Welch, land sold	252 37
	Pine Grove Cemetery	1,774 64
	Valley Cemetery	472 88
	S. C. Forsaith & Co., old hose-carriage	50 00
	C. H. Rogers, overdraft, Fire Department	42 00
	Police Department	7,631 36
	A. C. Osgood, overdraft, Police Department	2 12
	City Hall	2,192 85
	H. T. Simpson & Son, overdraft, Webster-street school-house	1,000 00
	John H. Maynard, for brick, Webster-street school-house	75 00
	Wooden Watering-trough sold	3 00
	Amount carried forward	\$260,213 77

*City of Manchester (ending December 31, 1882).**Cr.*

By Unpaid Bills, January 1, 1882	.	.	.	.	\$31,312 63
Temporary Loan . . . . .	.	.	.	.	85,000 00
Payment of Funded Debt . . . . .	.	.	.	.	25,600 00
Interest . . . . .	.	.	.	.	2,921 64
Coupons, City Bonds . . . . .	.	.	.	.	19,622 00
Coupons, Water Bonds . . . . .	.	.	.	.	36,099 00
Paupers off the Farm . . . . .	.	.	.	.	6,245 67
City Farm . . . . .	.	.	.	.	5,464 57
City Teams . . . . .	.	.	.	.	6,393 91
Highway District No. 1 . . . . .	.	.	.	.	325 82
“ “ “ 2 . . . . .	.	.	.	.	8,138 34
“ “ “ 3 . . . . .	.	.	.	.	983 10
“ “ “ 4 . . . . .	.	.	.	.	299 77
“ “ “ 5 . . . . .	.	.	.	.	418 59
“ “ “ 6 . . . . .	.	.	.	.	490 17
“ “ “ 7 . . . . .	.	.	.	.	655 42
“ “ “ 8 . . . . .	.	.	.	.	785 67
“ “ “ 9 . . . . .	.	.	.	.	554 84
“ “ “ 10 . . . . .	.	.	.	.	1,204 53
“ “ “ 11 . . . . .	.	.	.	.	796 45
“ “ “ 12 . . . . .	.	.	.	.	218 25
“ “ “ 13 . . . . .	.	.	.	.	247 67
New Highways . . . . .	.	.	.	.	4,685 31
Land Damages . . . . .	.	.	.	.	316 83
Watering Streets . . . . .	.	.	.	.	2,329 77
Lighting Streets . . . . .	.	.	.	.	5,935 30
Paving Streets . . . . .	.	.	.	.	8,517 20
Macadamizing . . . . .	.	.	.	.	3,505 31
Grading for Concrete . . . . .	.	.	.	.	7,703 14
Sewers and Drains . . . . .	.	.	.	.	24,148 13
Scavenger Team . . . . .	.	.	.	.	3,842 99
Bridges . . . . .	.	.	.	.	1,676 40
Commons . . . . .	.	.	.	.	1,319 96
Incidental Expenses . . . . .	.	.	.	.	49,812 42
Pine Grove Cemetery . . . . .	.	.	.	.	3,557 84
Valley Cemetery . . . . .	.	.	.	.	2,339 81
Fire Department . . . . .	.	.	.	.	15,576 50
Amount carried forward . . . . .	.	.	.	.	\$369,044 95

Dr. *Sylvanus B. Putnam, Treasurer, in account with the*

	Amount brought forward	.	.	.	\$260,213 77
To	Aqueduct Water	.	.	.	10 00
	P. Pruman, rent of land	.	.	.	1 00
	Rent of Ward Room	.	.	.	12 00
	Carl E. York, wire netting	.	.	.	6 00
	Water-Works	.	.	.	67,630 13
	Brock & Driscoll, overdraft, repairs school-houses	.	.	.	3 75
	L. B. Bodwell & Co., overdraft, fuel	.	.	.	8 00
	Interest on Taxes	.	.	.	414 90
	Tuition	.	.	.	213 37
	Show Licenses	.	.	.	204 00
	Rent of Tenements	.	.	.	273 00
	City Scales	.	.	.	25 00
	O. D. Carpenter	.	.	.	8 00
	Taxes collected on List of 1874	.	.	.	19 99
	Taxes collected on List of 1875	.	.	.	30 50
	“ “ “ 1876	.	.	.	14 58
	“ “ “ 1877	.	.	.	57 92
	“ “ “ 1878	.	.	.	58 59
	“ “ “ 1879	.	.	.	38 47
	“ “ “ 1880	.	.	.	117 60
	“ “ “ 1881	.	.	.	17,027 98
	“ “ “ 1882	.	.	.	269,156 63
	W. H. Maxwell, overdraft, P. off F.	.	.	.	17 00
	Dog Licenses	.	.	.	563 00
	Cost on Non-Resident Taxes	.	.	.	22 00
					<hr/>
					\$616,147 18
	Unpaid Bills, December 30, 1882	.	.	.	27,151 43
					<hr/>
					\$643,298 61

*City of Manchester (ending December 31, 1881).**Cr.*

	Amount brought forward	.	.	.	\$369,044* 95
By	Fire-alarm Telegraph	.	.	.	669 69
	Police Department	.	.	.	20,806 03
	City Hall	.	.	.	4,267 17
	Hydrant Service	.	.	.	20,070 00
	Printing and Stationery	.	.	.	1,564 89
	Repairs of Buildings	.	.	.	1,349 86
	City Library	.	.	.	3,115 72
	Women's Aid Society	.	.	.	400 00
	Militia	.	.	.	800 00
	Abatement of Taxes	.	.	.	2,172 07
	Discount on Taxes	.	.	.	7,351 59
	State Tax	.	.	.	41,060 00
	City Officers' Salaries	.	.	.	11,960 79
	Decoration of Soldiers' Graves	.	.	.	200 00
	Firemen's Parade	.	.	.	356 00
	Annex to City Library	.	.	.	6,133 79
	New School-house, Webster-street	.	.	.	11,506 68
	New School-house, Bakersville	.	.	.	2,494 87
	Water-works	.	.	.	26,102 35
	Repairs of School-houses	.	.	.	6,599 52
	Fuel	.	.	.	3,090 75
	Furniture and Supplies	.	.	.	1,111 53
	Books and Stationery	.	.	.	515 42
	Printing and Advertising	.	.	.	462 56
	Contingent Expenses	.	.	.	959 95
	Care of Rooms	.	.	.	2,574 33
	Evening Schools	.	.	.	1,414 92
	Teachers' Salaries	.	.	.	39,755 69
	Truant Officer	.	.	.	750 00
	Reservoirs	.	.	.	2 04
	Stark Monument Square	.	.	.	70 14
	Tuition	.	.	.	222 57
	Battery Building and Ward Room	.	.	.	7,005 37
					<hr/>
					\$595,961 24
	Cash in the Treasury December 31, 1882	.	.	.	\$47,337 37
					<hr/>
					\$643,298 61

SYLVANUS B. PUTNAM,

City Treasurer.

MANCHESTER, January 12, 1883.

FINANCE COMMITTEE'S REPORT.

We hereby certify that we have examined the account of Sylvanus B. Putnam, city treasurer for the year eighteen hundred eighty-two, and find the same to be correct and properly vouched for.

CHARLES F. MORRILL,
S. F. CURTIS,
H. B. PUTNAM,
THOMAS JOHNSON,
ARETAS BLOOD,

Joint Standing Committee on Finance.

MANCHESTER, N. H., January 12, 1883.

REVENUE ACCOUNT.

ACCOUNTS OF APPROPRIATIONS.

TEMPORARY LOAN.

		DR.
To Manchester Savings Bank	. \$45,000 00	
Mechanics Savings Bank	. 10,000 00	
Guaranty Savings Bank	. 10,000 00	
Amoskeag Savings Bank	. 20,000 00	
Merrimack River Savings Bank	20,000 00	
Amoskeag National Bank	. 5,000 00	
Second National Bank	. 15,000 00	
Merchants National Bank	. 10,000 00	
Charles Brown	. 1,000 00	
	<u> </u>	\$136,000 00

		CR.
Paid Manchester Savings Bank	. \$20,000 00	
Mechanics Savings Bank	. 10,000 00	
Guaranty Savings Bank	. 10,000 00	
Amoskeag Savings Bank	. 15,000 00	
Merrimack River Savings		
Bank	. 15,000 00	
Amoskeag National Bank	. 5,000 00	
Second National Bank	. 5,000 00	
Merchants National Bank	. 5,000 00	
By balance to new account	. 51,000 00	
	<u> </u>	\$136,000 00

INTEREST.

DR.

To appropriation . . .	\$20,000 00	
water-works, am't transferred	38,000 00	
balance overdrawn . . .	642 64	
	<hr/>	\$58,642 64

CR.

Paid Mechanics Savings Bank .	\$150 00	
Manchester Savings Bank .	1,050 69	
Guaranty Savings Bank .	145 83	
Amoskeag Savings Bank .	522 91	
Merrimack River Savings Bank	390 97	
Amoskeag National Bank .	62 50	
Second National Bank .	407 08	
Merchants National Bank .	191 66	
coupons, city proper . . .	19,622 00	
coupons, water bonds . . .	36,099 00	
	<hr/>	\$58,642 64

INTEREST ON TAXES.

DR.

To Geo. E. Morrill, collector .	\$414 90	
	<hr/>	\$414 90

CR.

By reserved fund, am't transferred	\$316 16	
By balance on hand	98 74	
	<hr/>	\$414 90

PAUPERS OFF THE FARM.

DR.

To balance from old account .	\$737 78	
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To appropriation . . .	\$3,500 00	
county of Hillsborough, board of inmates of reform school	3,141 89	
W. H. Maxwell . . .	17 00	
	<hr/>	\$7,396 67

CR.

Paid Daniel Sheehan, groceries furnished Mrs. P. Sullivan	\$69 18
Daniel Sheehan, groceries furnished Michael Kelley	72 00
Daniel Sheehan, groceries furnished Mrs. J. Bohan .	66 00
Daniel Sheehan, groceries furnished Mrs. J. Shanley	66 00
Daniel Sheehan, groceries furnished Martin Whalen	40 00
Daniel Sheehan, groceries for Mrs. David McKay .	48 00
Daniel Sheehan, groceries furnished Mrs. J. Reardon	48 00
Daniel Sheehan, groceries furnished Mrs. P. Fox .	30 00
Daniel Sheehan, groceries furnished Mrs. D. Haley .	18 00
Daniel Sheehan, groceries furnished Mrs. M. Fitz- gerald	25 00
Daniel Sheehan, groceries furnished Mrs. P. Dono- van	10 00
B. Bresnehan, groceries fur- nished Mrs. M. Shanley .	48 00
B. Bresnehan, groceries fur- nished P. J. Hanley .	61 00

Paid B. Bresnehan, groceries furnished Robert McMahon	\$60 00
B. Bresnehan, groceries furnished Mrs. J. Joice .	15 00
Wm. F. Sleeper & Co. groceries furnished Joseph Dearborn	40 77
Wm. F. Sleeper & Co., groceries furnished Joseph Pierce	48 00
Wm. F. Sleeper & Co., groceries furnished Mrs. J. Joice	48 00
Wm. F. Sleeper & Co., groceries furnished Pyam Hovey	99
B. F. Page, groceries furnished Mrs. Douglas Hunter	19 68
P. Harrington, groceries furnished Mrs. J. Laughlin .	71 87
Adams & Lamprey, groceries furnished Mrs. Fitzgerald .	1 50
Adams & Lamprey, groceries furnished Levi M. Green	11 00
Adams & Lamprey, groceries furnished James Callahan	12 00
Adams & Lamprey, groceries furnished Mrs. Geo. Chapman	12 50
Adams & Lamprey, groceries furnished Mrs. Alfred Turcotte	97 45
Griffin Bros., groceries furnished Mrs. Ann Mackin	60 00

Paid M. E. Griffin, groceries furnished Walter Lynch .	\$11 00
Michael Kenney, groceries furnished Mrs. Johanna Harrison	60 00
A. G. Pratt, groceries furnished Mrs. Rushlow .	34 00
Currier & Johnson, groceries furnished Pyam Hovey .	55 93
H. Fradd & Co., groceries furnished Mrs. Douglas Hunter	49 11
Gauvreau & Morency, groceries furnished Mrs. Alfred Turcotte	40 55
Barnard & Huskie, groceries furnished Mrs. Douglas Hunter	5 56
Eager & Rand, groceries furnished Helen Rhodes .	33 70
Geo. C. Lord, groceries furnished Mrs. Geo. Chapman	5 00
Frank M. Forsaith, groceries furnished Mrs. Doherty .	9 00
A. M. Eastman, groceries furnished Mrs. Doherty .	3 00
A. M. Eastman, groceries furnished Mr. Stevens .	3 00
Josiah Taylor & Son, groceries furnished Bridget Gilbert	10 00
N. C. Garland, groceries furnished Mrs. Douglas Hunter	53 13

Paid C. W. Farmer, groceries furnished Mrs. Wm. Stevens .	\$8 00
Geo. H. Stearns, groceries furnished John Leard .	3 50
J. G. Cate, groceries furnished Mrs. Douglas Hunter .	10 27
H. E. Stevens, groceries furnished Mrs. Ellen Sullivan	32 00
I. G. Rowell, groceries furnished Mrs. Patrick Green	7 00
Geo. W. Wilson, groceries furnished Mrs. Mary Green	12 00
Hardy & Co., groceries furnished Mrs. H. Gilbert .	5 00
D. M. Poore, groceries furnished Mrs. Green . . .	2 00
Bartlett & Thompson, groceries furnished Louis Rushlow	4 00
Mrs. O. J. Doble, board of Anna B. Ayer	72 00
Geo. C. Batchelder, board of Geo. H. Batchelder and family	144 00
Ellen E. Pillsbury, board of family	72 00
Wm. F. Chase, board of Thomas Chase	53 00
Mrs. S. B. Davis, board of Joseph Bellefleur . . .	29 80
C. C. Colby, board of Alice P. Nutt	57 12
Mrs. Volney T. Simmons, board of family	23 00

Paid Town of Lancaster, support of Benson Joy	\$75 13
Mrs. Harvey, care of Mrs. J. White	12 33
A. H. Paige, care of Mrs. Henry Paige	54 00
A. McIndoe, wood for Mrs. N. Laine	4 00
A. McIndoe, wood for P. J. Hanley	2 00
A. McIndoe, wood for Mrs. P. Sullivan	2 00
A. McIndoe, wood for David S. McKay	16 00
A. McIndoe, wood for John Consodine	4 00
Rowell & Burns, wood for Mrs. Stevens	3 00
Rowell & Burns, wood for Mrs. Callahan	2 00
L. B. Bodwell & Co., wood and coal for Mrs. Alfred Turcotte	28 00
L. B. Bodwell & Co., wood for James Callahan	4 00
L. B. Bodwell & Co., wood for David McKay	6 74
E. P. Johnson & Co., wood for James Callahan	2 13
E. P. Johnson & Co., wood for Mrs. Fitzgerald	2 00
S. Brown, wood for Mrs. Douglas Hunter	6 25

Paid J. W. Kimball, wood for	
James Dearborn . . .	\$2 50
J. W. Kimball, wood for Mrs.	
Douglas Hunter . . .	2 00
Preston & Moore, wood for	
Mrs. Gilbert . . .	2 00
Moore & Preston, wood for	
Thomas Connor . . .	4 00
L. S. Proctor, wood for Pyam	
Hovey . . .	18 00
L. S. Proctor, wood for	
Joseph Dearborn . . .	9 00
State Industrial School, board	
of inmates . . .	2,716 07
N. H. Insane Asylum, board	
of Willard A. Reed . . .	93 79
N. H. Insane Asylum, board	
of John Connelly . . .	42 99
N. H. Insane Asylum, board	
of Martha J. Dunn . . .	28 10
N. H. Insane Asylum, board	
of Elbridge Gerry . . .	108 20
N. H. Insane Asylum, board	
of John J. Murray . . .	212 62
N. H. Insane Asylum, board	
of Patrick Cronin . . .	58 43
N. H. Insane Asylum, board	
of Asenath H White . . .	76 98
N. H. Insane Asylum, board	
of Lysander G. Wilkins . . .	45 12
N. H. Insane Asylum, board	
of Michael Gillis . . .	94 81
Town of Lancaster, support of	
Benson Joy . . .	70 53

Paid Dr. Geo. C. Hoitt, profes-		
sional services . . .	\$3 00	
Dr. Geo. D. Towne, profes-		
sional services . . .	6 00	
Dr. N. P. Taplin, profes-		
sional services . . .	12 00	
Tebbetts Bros., medicine .	38 22	
Lewis K. Mead, medicine .	165 85	
James Bros., teams . . .	4 00	
C. C. Perry, teams . . .	2 00	
William Freeman . . .	3 00	
J. Stickney, rubber cushion .	2 50	
Edwin Kennedy, clothing for		
Joseph Dearborn . . .	2 00	
Mitchell & Heath, boots and		
rubbers for Alice P. Nutt .	3 50	
John N. Bruce, undertaker .	37 00	
Pearson & Wallace, under-		
taker	29 00	
A. G. Monette, undertaker .	24 00	
Wm. H. Maxwell, railroad		
tickets for paupers . . .	42 00	
E. G. Woodman, cash paid		
out	24 20	
C. H. Reed, removing insane		
paupers	9 50	
Temple & Farrington, print-		
ing	18 33	
W. B. Blandin, serving legal		
notices	3 24	
By balance to new account . .	1,151 00	
	<hr/>	\$7,396 67

CITY FARM.

DR.

To balance from old account . . .	\$741 47	
appropriation	3,000 00	
Frederick Allen, produce sold . . .	2,261 04	
C. C. Chase, hay	20 93	
	<hr/>	\$6,023 44

CR.

Paid Frederick Allen, superintendent	\$500 00	
Frederick Allen, labor	667 90	
Charles F. Allen & Co., groceries	418 11	
D. M. Poore, groceries	23 07	
Geo. H. Stearns, groceries	145 61	
Hardy & Co., groceries	168 79	
J. G. Warner, groceries	3 11	
Eager & Rand, groceries	20 07	
Fitzpatrick & Adams, groceries	4 98	
Pettee & Whittle, grain	219 48	
Pettee & Adams, grain	549 31	
Samuel Cooper, grain	149 93	
C. H. Hill & Co., grain	6 00	
Daniels & Co., hardware	62 48	
J. B. Varick, hardware	126 04	
Wm. C. Rogers, hardware	63 47	
J. B. McCrillis & Son, repairing carts	52 43	
Jas. S. Bachelder, plumbing	151 82	
J. F. Woodbury, blacksmithing	42 85	
W. H. Hill, blacksmithing	1 25	
Fellows & Co., blacksmithing	1 25	

Paid Bunton & Wilbur, black-	
smithing	\$7 10
Pike & Heald, plumbing	30 94
T. A. Lane, plumbing	9 50
J. S. Masseck, dry goods	28 70
N. S. Clark, dry goods	18 98
Piper, Hawley, & Co., dry	
goods	47 96
Plumer & Holton, clothing	38 86
Manchester O. P. C. Co.,	
clothing	41 14
Bishop & Brother, ladder, etc.	9 40
Clark & Johnson, use of oxen	10 00
Geo. S. Clough & Co., meats	31 56
J. Hodge, lumber	22 95
A. J. Sawyer, lumber	16 35
A. C. Wallace, lumber	102 45
J. H. Maynard, lumber	90 87
Brigham & Pratt, crackers	25 39
Smith & Bly, crackers	6 11
B. L. & C. R. R., freight	5 82
F. P. Woodbury, making	
cider	3 42
Ezra W. Kimball, repairing	
harness	39 42
C. L. Moulton, professional	
services	4 50
Mitchell & Heath, boots and	
shoes	32 35
F. C. Dow, boots and shoes	30 45
H. H. Dunklee, swill	50 00
J. P. Finn & Co., painting	1 88
J. J. Abbott, painting	8 29
R. G. Sullivan, tobacco	49 29

Paid J. Stickney, rubber cloth, etc.	\$9 25
E. P. Johnson & Co., coal .	444 80
Granite State Telephone Co. .	33 75
E. M. Slayton, butter . . .	87 00
D. A. Simons, furniture, etc. .	39 77
Ira P. Emery & Co., tin ware, etc.	29 28
Natt & Wm. F. Head, brick .	42 00
Temple & Farrington, room- paper, etc.	4 24
Amoskeag Mfg. Co., copper pump	2 25
P. A. Devine, undertaker .	15 00
J. S. Holt & Co., soap, etc. .	38 24
J. F. Conway, making sled- body	13 85
E. T. James, team . . .	3 00
Elmer Laird, labor . . .	16 77
Wm. D. Eastman, whitewash- ing	3 00
D. D. Brainard, washing-ma- chine	10 50
A. Royal, swill	23 85
Pearson & Wallace, under- taker	16 00
T. B. Eastman, swill . . .	11 66
R. B. Neal, drag plank . .	2 00
Geo. S. Smith, oats . . .	67 09
J. O. Clark, oxen	180 00
A. F. Perry, medicines . .	14 09
Samuel F. Adams, manure .	16 50
U. S. & C. express . . .	2 10
John Perham, labor . . .	24 00
Henry G. Clark, labor . .	3 00

Paid H. A. Horton, onion seed . . .	\$2 00	
Stark Mills, wooden tub . . .	5 00	
Wm. Neal, labor on well . . .	8 75	
J. M. Crombie, labor on well . . .	7 50	
Anna Sweatt, heifer . . .	20 50	
Gideon Flanders, ice . . .	12 98	
Geo. C. Hoitt, professional services	3 00	
R. M. Rollins	15 50	
J. C. Nichols & Son	1 50	
B. W. Robinson & Co., Akron pipe, etc.	50 07	
D. Kerwin & Son, soap	4 20	
Manchester Axe Co., repairing tools	2 85	
A. H. Weston, clothing	23 30	
Manchester O. P. Clothing Co.	12 40	
By balance to new account	558 87	
	<hr/>	\$6,023 44

CITY TEAMS.

To District No. 2	\$371 00	DR.
District No. 10	58 50	
incidental expenses	16 50	
grading for concrete	270 87	
new highways	25 50	
paving	78 50	
scavenger teams	966 00	
watering streets	600 75	
sewers and drains	23 63	
Geo. O. Theobald, horses and collars	125 00	
reserved fund, am't transferred	3,857 66	
	<hr/>	\$6,393 91

CR.

Paid J. Q. Perley, hay . . .	\$33 69
A. T. Peckham & Son, hay . . .	250 50
City Farm, hay . . .	155 53
O. Hinckley, hay . . .	128 78
E. P. Johnson & Co., hay . . .	402 39
J. N. Rundlett, hay . . .	4 19
Geo. Foster estate, hay . . .	120 80
W. C. Parker, hay . . .	97 46
F. P. Felch, hay . . .	24 78
D. H. Cochran, hay . . .	29 94
H. M. Manahan, straw . . .	17 20
J. N. Hill, hay . . .	22 54
Mary Cressey, straw . . .	3 69
J. C. Nichols & Son, straw . . .	13 68
N. P. Kidder, straw . . .	40 54
F. D. Hanscom, straw . . .	41 17
J. F. Woodbury, blacksmithing . . .	79 25
Parker & Son, carrots . . .	15 40
J. H. Cram, carrots . . .	149 75
Manchester Gas Co., gas . . .	6 84
Samuel Cooper, grain . . .	889 48
Pettee & Adams " . . .	340 15
Pettee & Whittle " . . .	79 90
H. Fradd & Co. " . . .	98 44
G. H. Stearns, brooms, salt, etc. . .	3 55
Daniels & Co., hardware . . .	13 56
Wm. C. Rogers " . . .	40
Z. F. Campbell, horse medicine . . .	30 70
Wm. F. Bowles & Co., horses . . .	375 00
C. D. Welch, horses . . .	550 00
H. S. Plumer, horse . . .	250 00
A. C. Wallace, horse . . .	150 00

Paid Ezra W. Kimball, harness and repairs	\$290 29
H. C. Ranno, repairing harness	30 03
D. S. Ames, collars, etc.	44 25
J. B. McCrillis & Son, carts, etc.	610 62
Sanborn Carriage Co., repairing carts	2 85
J. F. Conway, repairing carts	4 50
Weston & Hill, flannel	1 88
B. L. & C. R. R., freight on horses	7 65
E. T. James, boarding horse	1 00
C. L. Moulton, professional services	15 00
James Bros., professional services	10 00
A. N. Clapp, pitch-fork, etc.	1 80
Pike & Heald	2 49
Wm. H. Vickery, keys	1 75
D. F. Cressey, repairs on cart	5 85
F. G. Stark, pasturing horse	4 00
L. A. Dickey, blacksmithing	6 50
J. P. Scolley & Co., harness, soap, etc.	16 30
Geo W. Butterfield, teamster	298 49
A. B. Cushing, teamster	262 87
A. Robie, teamster	56 25
Walter Seaward, teamster	141 75
Charles M. Denyon, teamster	74 99
Eben Harvey, teamster	7 00
Geo. H. Porter, teamster	16 50
Charles Rodgers, teamster	31 50
Jerry Lane, teamster	28 50
	<hr/>
	\$6,393 91

HIGHWAY DISTRICT NO. 1.

DR.

To appropriation	\$300 00	
reserved fund, am't transferred	25 82	
	<hr/>	\$325 82

CR.

Paid G. F. Hamlet, superintendent	\$49 50	
M. F. Dodge, superintendent .	79 23	
M. F. Dodge, gravel	11 90	
for labor of men and teams .	183 49	
Daniels & Co., hardware . . .	1 70	
	<hr/>	\$325 82

HIGHWAY DISTRICT NO. 2.

DR.

To appropriation	\$10,000 00	
Stark Mills, sand	97 25	
	<hr/>	\$10,097 25

CR.

Paid Daniels & Co., hardware . .	\$214 32	
J. B. Varick, hardware	22 55	
Wm. C. Rogers	11 75	
Warren Harvey, superin-		
tendent	792 00	
L. A. Dickey, blacksmithing .	16 36	
Geo. H. Stearns, salt, pails etc.	6 52	
W. H. Vickey, keys	2 70	
T. A. Lane, plumbing	71	
A. J. Sawyer, lumber	1 15	
A. C. Wallace, lumber	4 73	
Abbot-Downing Co., Sunpee		
broom	40 00	
Pike & Heald, plumbing	3 35	

Paid Derry & Co., blacksmithing .	\$23 34	
R. M. Flanders, blacksmithing	5 79	
B. L. & C. R. R., freight .	25	
Geo. Whitford, filling . .	3 20	
A. H. Lowell, iron casting .	75	
Daniel Healy, whitewashing .	14 60	
W. E. & E. B. Dunbar, repair- ing wagon	1 00	
A. B. Cushing, teamster .	10 50	
A. Robie, teamster . .	17 25	
F. Dustin, teamster . .	12 75	
Charles Rogers, teamster .	27 00	
Walter Seaward, teamster .	25 50	
Geo. Seaward, teamster .	36 00	
Charles Denyon, teamster .	118 87	
C. E. Clough, scraping snow .	3 50	
Geo. H. Stearns, kerosene oil, etc.	3 56	
for labor of men and teams .	6,718 34	
By reserved fund, am't transferred	1,958 91	
	<hr/>	\$10,097 25

HIGHWAY DISTRICT NO. 3.

DR.

To appropriation	\$600 00	
reserved fund, am't transferred	383 10	
	<hr/>	\$983 10

CR.

Paid Henry C. Dickey, superin- tendent	\$66 00	
Edwin N. Baker, superin- tendent	152 50	
Head & Dowst, lumber . .	2 53	

Paid Daniels & Co., hardware .	\$25 71	
J. B. Varick, hardware .	1 80	
Wm. C. Rogers, hardware .	32	
A. H. Lowell, blacksmithing .	6 93	
A. C. Wallace, lumber .	2 50	
Wm. Landry, stone-work .	19 63	
Jonas J. Adams, stone-work .	2 25	
for labor of men and teams .	702 93	
	<u> </u>	\$983 10

HIGHWAY DISTRICT NO. 4.

		DR.
To appropriation	\$300 00	
	<u> </u>	\$300 00
		CR.
Paid C. C. Webster, superintendent	\$60 49	
C. C. Webster, gravel . . .	30 00	
J. B. Varick, hardware . .	60	
for labor of men and teams .	208 68	
By balance on hand	23	
	<u> </u>	\$300 00

HIGHWAY DISTRICT NO. 5.

		DR.
To appropriation	\$400 00	
reserved fund, am't transferred	18 59	
	<u> </u>	\$418 59
		CR.
Paid C. A. Pierce, superintendent .	\$71 00	
J. B. Varick, hardware . .	2 40	
for labor of men and teams .	345 19	
	<u> </u>	\$418 59

HIGHWAY DISTRICT NO. 6.

DR.

To appropriation	\$100 00	
reserved fund, am't transferred	90 17	
	<hr/>	\$490 17

CR.

Paid I. T. Webster, superintendent	\$55 69	
Daniels & Co., hardware .	6 05	
for labor of men and teams .	428 43	
	<hr/>	\$490 17

HIGHWAY DISTRICT NO. 7.

DR.

To appropriation	\$650 00	
balance overdrawn	5 42	
	<hr/>	\$655 42

CR.

Paid H. A. Horton, superintendent	\$72 00	
James S. Bacheler, plumbing	3 94	
J. B. Varick, hardware .	3 99	
Daniels & Co., hardware, .	2 50	
Head & Dowst, lumber .	3 33	
Pettee & Adams, cement .	1 75	
J. W. Watson, blacksmithing .	23 59	
Atherton & Benton, lantern and oil	85	
A. C. Wallace, lumber .	20 23	
for labor of men and teams .	523 24	
	<hr/>	\$655 42

HIGHWAY DISTRICT NO. 8.

		DR.
To appropriation	\$550 00	
reserved fund, am't transferred	235 67	
	<hr/>	\$785 67
		CR.
Paid Jeremiah Garvin, superintend- ent	\$85 40	
Bunton & Wilbur, blacksmith- ing	1 25	
Daniels & Co., hardware	14 38	
for labor of men and teams	684 64	
	<hr/>	\$785 67

HIGHWAY DISTRICT NO. 9.

		DR.
To appropriation	\$450 00	
reserved fund, am't transferred	104 84	
	<hr/>	\$554 84
		CR.
Paid J. J. Garmon, superintendent labor of men and teams	\$191 00 363 84	
	<hr/>	\$554 84

HIGHWAY DISTRICT NO. 10.

		DR.
To appropriation	\$1,000 00	
reserved fund, am't transferred	204 53	
	<hr/>	1,204 53
		CR.
Paid Fred S. Worthen, superintend- ent	\$254 00	

Paid William C. Rogers, hardware	\$14 61	
J. B. Varick, hardware .	7 15	
A. C. Wallace, lumber . .	30 64	
C. O. Shaughnessey, carpenter-work	7 50	
Pettee & Adams, cement .	29 70	
John Barnes, blacksmithing .	56 94	
D. F. Cressey & Co., blacksmithing	5 75	
A. N. Clapp, nails, powder, etc.	6 98	
Frederick C. Dow, rubber boots	3 75	
Stephen Austin, repairing snow-plow	6 40	
D. H. Morgan, carpenter-work	1 00	
Warren Harvey, use of horse	5 00	
George F. Hanson, blacksmithing	1 75	
A. Bodwell & Son, stone .	15 00	
George W. Goffe, drag plank	4 00	
for labor of men and teams .	754 36	
	<hr/>	\$1,204 53

HIGHWAY DISTRICT NO. 11.

DR.

To appropriation	\$700 00	
reserved fund, am't transferred	96 45	
	<hr/>	\$796 45

CR.

Paid J. E. Bailey, superintendent .	\$218 13
George H. Stearns, kerosene oil	30
George I. Ayer, spruce plank	4 80

Paid D. Wells, plank	\$25 64	
L. N. George, lumber	27 62	
Daniels & Co., hardware	7 02	
S. L. Flanders, spikes	2 00	
B. W. Robinson & Co., mason work	14 79	
for labor of men and teams . .	496 15	
	<hr/>	\$796 45

HIGHWAY DISTRICT NO. 12.

		Dr.
To appropriation	\$250 00	
	<hr/>	\$250 00
		Cr.
Paid City Farm, labor	\$206 25	
A. Bodwell, stone	12 00	
By balance on hand	31 75	
	<hr/>	\$250 00

HIGHWAY DISTRICT NO. 13.

		Dr.
To appropriation	\$150 00	
reserved fund, am't transferred	97 67	
	<hr/>	\$247 67
		Cr.
Paid Fellows & Co., blacksmithing	3 50	
for labor of men and teams . .	244 17	
	<hr/>	\$247 67

NEW HIGHWAYS.

DR.

To appropriation	\$2,000 00	
reserved fund, am't transferred	2,685 31	
	<hr/>	\$4,685 31

CR.

Paid Proctor Bros., building extension of Proctor road . . .	\$459 00	
Moses Plante, building extension of Beech street . . .	127 50	
Joseph A. Brown, building extension of Valley street . . .	1,053 94	
Joseph A. Brown, stone . . .	10 50	
Head & Dowst, lumber . . .	1 13	
W. S. Baker, whitewashing . . .	3 00	
Warren Harvey, stone . . .	224 88	
J. B. Varick, hardware . . .	41	
Daniels & Co., hardware . . .	13 53	
T. A. Lane, iron railing, etc. . .	154 67	
Atherton & Benton, kerosene oil	12	
for labor of men and teams . . .	2,636 63	
	<hr/>	\$4,685 31

LAND DAMAGE.

DR.

To appropriation	\$1,000 00	
	<hr/>	\$1,000 00

CR.

Paid Annie F. Searles, land taken on Webster street . . .	\$98 33	
Mary J. Merrill, land taken on Webster street	1 00	

Paid John J. Dillon, land taken on		
Webster street	\$42 50	
C. M. Stevens	175 00	
By reserved fund, am't transferred	683 17	
	<hr/>	\$1,000 00

WATERING STREETS.

DR.

To appropriation	\$2,000 00	
reserved fund, am't transferred	329 77	
	<hr/>	\$2,329 77

CR.

Paid J. B. McCrillis & Son, repair-		
ing water-carts	\$58 08	
Manchester Water-works, wa-		
ter	720 00	
Sanborn Carriage Co., repair-		
ing cart, etc.	9 10	
Pike & Heald, repairing cart .	10 65	
Thomas A. Lane, stand pipes,		
etc.	36 21	
J. B. Clarke, printing	5 62	
Samuel Brown, Jr., watering		
streets	82 00	
George W. Butterfield, team-		
ster	130 87	
A. B. Cushing, teamster	127 87	
City teams	600 75	
Mark Harvey, team	460 12	
Warren Harvey, team	9 00	
Charles M. Denyon, teamster . .	54 00	
Charles Rogers, teamster	25 50	
	<hr/>	\$2,329 77

LIGHTING STREETS.

DR.

To appropriation	\$5,500 00	
reserved fund, am't transferred	435 30	
	<hr/>	\$5,935 30

CR.

Paid Manchester Gas Co., gas	\$2,990 34	
Manchester Gas Co., for lanterns, etc.	355 38	
I. R. Dewey, lighting lamps	2,148 04	
Wm. C. Rogers, glass	38 00	
A. H. Lowell, lamp-posts	350 00	
Thomas A. Lane, globes, cocks, etc.	21 74	
Edward N. Fogg, lanterns and lamps	8 45	
Brock & Driscoll, repairing lanterns	23 35	
	<hr/>	\$5,935 30

PAVING STREETS.

DR.

To appropriation	\$2,000 00	
balance overdrawn	6,517 20	
	<hr/>	\$8,517 20

CR.

Paid Charles A. Bailey, block paving	\$2,457 14	
Charles A. Bailey, flagging	803 52	
Lamson & Marden, flagging	167 72	
Charles H. Robie, concreting	1,424 48	
J. M. Nutt, cobble paving	1 50	
C. C. Webster, cobble paving	49 50	

Paid N. A. Sleeper, cobble paving .	\$22 50	
S. P. Worthley, cobble paving	27 75	
R. A. Lawrence, cobble paving	5 25	
H. S. Plumer, cobble paving	19 75	
Daniel Butterfield, cobble paving	28 50	
Benjamin Plummer, cobble paving	1 00	
James Fullerton, cobble paving	27 00	
James Dearborn, cobble paving	5 00	
Wm. C. Rogers, hardware .	40	
Derry & Co., blacksmithing .	4 90	
Lamson & Marden, blacksmithing	5 38	
J. B. Clarke, printing . . .	15 70	
Pike & Heald, lanterns, etc. .	4 56	
for labor of men and teams .	3,445 65	
	<hr/>	\$8,517 20

MACADAMIZING STREETS.

DR.

To appropriation	\$2,500 00	
reserved fund, am't transferred	1,005 31	
	<hr/>	\$3,505 31

CR.

Paid J. B. Varick, hardware . .	\$45 07
Daniels & Co., hardware .	18 49
Thomas A. Lane, plumbing .	18 35
Hutchinson Bros., repairing crusher	190 63
Lamson & Marden, stone chips	21 00

Paid M. R. Garland, wood for crusher	\$26 41	
Manchester Water-works, wa- ter	30 00	
J. C. Young & Co., roofing for crusher	67 21	
D. W. Garland & Co., loading stone	22 75	
D. W. Garland, wood	7 64	
L. A. Dickey, blacksmithing .	4 10	
Pike & Heald, plumbing . .	1 80	
Kimball & Gerrish, tallow for crusher	2 40	
Samuel Cooper, teaming stone	2 80	
H. Willey, stone	3 80	
Samuel Hall, stone chips . .	4 05	
James Kennard, stone chips .	97 75	
James O. Clark, stone chips .	8 10	
for labor of men and teams .	2,932 96	
	<hr/>	\$3,505 31

GRADING FOR CONCRETE.

DR.

To appropriation	\$3,000 00	
reserved fund, am't transferred	4,703 14	
	<hr/>	\$7,703 14

CR.

Paid Lamson and Marden, flagging stone	\$660 42	
Charles A. Bailey, flagging stone	140 30	
J. B. Varick, hardware . . .	9 10	
Warren Harvey, stone	3 50	

Paid J. A. B. Emerson, sand . . .	\$5 00	
Head & Dowst, lumber . . .	57 88	
for labor of men and teams . . .	6,826 94	
	<hr/>	\$7,703 14

SEWERS AND DRAINS.

DR.

To appropriation	\$15,000 00	
sewer licenses	1,186 20	
N. Mickey, overdraft	2 50	
balance overdrawn	7,959 43	
	<hr/>	\$24,148 13

CR.

Paid Thomas A. Lane, sewer pipe .	\$2,973 62
E. G. Haynes, sewer pipe .	170 71
B. W. Robinson & Co., sewer pipe	3,500 56
A. H. Lowell, iron-work .	284 52
B. L. & C. R. R., freight on brick	211 50
A. N. Clapp, powder, fuse, nails, etc.	15 04
Lamson & Marden, black- smithing	25 88
H. Fradd & Co., kerosene oil, shovels, etc.	17 95
D. F. Cressey, blacksmithing .	31 23
J. Welcome, blacksmithing .	2 45
Furnald & Burbank, rubber boots	16 25
Plaisted & Haines, rubber boots	49 00
Pike & Heald, lanterns, wicks, etc.	28 35

Paid Stephen Derry, blacksmithing	\$87 93
Stephen Austin, blacksmithing	19 65
Wm. C. Rogers, hardware .	110 21
J. B. Varick, hardware . .	51 34
Daniels & Co., hardware .	83 03
L. J. Flint, carpenter-work .	9 30
A. J. Sawyer, lumber . .	13 48
A. C. Wallace, lumber . .	283 44
Pettee & Whittle, cement .	39 00
Pettee & Adams, cement .	756 85
Drake & Carpenter, cement .	483 45
Natt & W. F. Head, brick .	1,750 00
T. L. Thorpe, waste . .	3 57 .
J. B. Clarke, printing . .	6 78
Henry N. Stone, sewer-pump, etc.	65 40
S. Hovey, torches, etc. . .	3 04
Derry & Co., blacksmithing .	16 88
D. F. Cressey & Co., black- smithing	3 74
J. Stickney, rubber mittens .	15 00
Thorp & Avery, torch-han- dles etc.	1 57
Brock & Driscoll, iron scoop .	1 50
Samuel Brown, teaming .	25 00
J. A. B. Emerson, mortar sand	20 00
A. Bodwell & Son, stone .	100 80
Plumer, Holton, & Co., oil- cloth suit	9 50
E. Hartshorn, sand . .	5 85
L. A. Dickey, blacksmithing .	8 45
J. B. McCrillis & Son, black- smithing	1 85
B. F. Porter, filing saws .	5 30

Paid Chas. O'Shaughnessey, black-		
smithing	\$6	85
George H. Stearns, oil, etc. .	4	51
Warren Harvey, stone . . .	2	10
for labor of men and teams .	12,825	60
	<u> </u>	\$24,148 13

BRIDGES.

DR.

To appropriation	\$1,000	00	
B. L. & C. R. R., labor on Elm-			
street bridge	14	37	
reserved fund, am't transferred	662	03	
	<u> </u>		\$1,676 40

CR.

Paid A. C. Wallace, lumber . . .	\$364	22	
J. H. Maynard, lumber . . .	34	60	
P. Brown, labor and lumber . .	26	55	
Head & Dowst, lumber . . .	59	80	
N. R. Bixby, lumber . . .	12	00	
George Whitford, teaming			
lumber	2	00	
for labor of men and teams .	1,177	23	
	<u> </u>		\$1,676 40

COMMONS.

DR.

To appropriation	\$1,500	00	
Champion iron fence (overdraft)	12	42	
	<u> </u>		\$1,512 42

CR.

Paid Wm. P. Scott, labor . . .	\$400	18	
James S. Bacheler, plumbing	43	90	

Paid Daniels & Co., hardware .	\$21 72	
J. B. Varick, hardware .	20 40	
A. H. Lowell, iron-work .	28 63	
Lamson & Marden, labor .	10 95	
James Bros., teams .	4 00	
Hill & Co., expressage .	1 15	
B. L. & C. R. R., freight .	14 47	
Peter Milon, painting fence .	20 00	
Champion Iron Fence Co., iron fence	235 00	
Manchester Water-works, wa- ter	50 00	
Fellows & Co., irons for lad- ders	2 00	
S. Derry, blacksmithing .	75	
Calvin Richardson, labor .	3 75	
Tristram Berry, labor .	3 00	
John Perham, labor .	14 75	
Henry Parker, labor .	11 60	
Charles Bamford, labor .	71 62	
James Johnson, labor .	11 25	
L. A. Dickey, blacksmithing .	5 85	
J. Hodge, lumber .	2 50	
A. J. Sawyer, lumber .	3 87	
George Holbrook, lumber .	41 39	
Thorp & Avery, pails, etc. .	2 85	
R. G. Chase & Co., shrubs .	125 00	
J. G. Abbott, painting .	10 08	
for labor of men and teams .	159 61	
By reserved fund, am't transferred	192 15	
	<hr/>	\$1,512 42

REPAIRS OF SCHOOL-HOUSES.

DR.

To appropriation	\$3,000 00	
Brock & Driscoll, overdraft	3 75	
reserved fund, am't transferred	2,500 00	
teachers' salaries, amount trans- ferred	100 00	
tuition	700 00	
balance overdrawn	397 01	
	<hr/>	\$6,700 76

CR.

Paid Head & Dowst, repairing Spring street school-house	\$3,118 78	
George Holbrook, lumber and labor	930 41	
George H. Dudley, lumber and labor	36 75	
T. A. Lane, piping, etc., Spring street school-house	595 04	
T. A. Lane, plumbing, etc.	38 74	
Jas. S. Bacheler, plumbing, etc.	194 22	
J. J. Abbott, painting	\$626 66	
Cogswell & Demick, painting	35 20	
Warren Harvey, stone	26 25	
J. B. Varick, hardware	10 20	
Pike & Heald, plumbing, etc.	175 16	
T. A. Lane, plumbing	50	
Carpenter & Baker, whitewash- ing	121 75	
A. H. Lowell, iron castings	49 28	
Charles M. Norton	6 50	
Thorp & Avery, iron pipe, etc.	20 29	
F. W. Avery	7 37	
G. W. Varnum, extra labor	31 00	

Paid D. H. Morgan, extra labor .	\$20 00	
A. D. Smith, labor on annunci- ator	4 50	
J. C. Young & Co., repairing roof	18 51	
G. R. Vance & Co., Russia pipe, etc.	4 00	
B. W. Robinson, Akron pipe, etc.	42 53	
J. J. Bennett, mason-work .	3 75	
B. L. & C. railroad, freight .	35 52	
Wm. H. Vickery, keys .	80	
Jerome Redding & Co., bells, batteries, etc.	50 00	
D. H. Young, drain-pipe, etc.	11 22	
Brock & Driscoll, labor on stoves	3 75	
W. P. Stratton & Son, repair- ing pumps, etc.	2 25	
D. M. Goodwin, repairing stoves	14 75	
J. S. Avery, setting glass .	2 35	
James Doland, plastering .	8 00	
Chase Bros., wood pump .	6 00	
A. N. Clapp, glass .	33	
J. A. B. Emerson, excavating Spruce-street school-house .	140 00	
J. T. Fanning, professional services	75 00	
C. A. Pierce, labor on well, powder, etc.	132 16	
By balance overdrawn in 1881 .	101 24	
	<hr/>	\$6,700 76

FUEL.

		DR.
To balance from old account . . .	\$257 09	
appropriation	3,000 00	
L. B. Bodwell & Co., overdraft	8 00	
	<hr/>	\$3,265 09
		CR.
Paid L. B. Bodwell & Co., coal and		
wood	\$2,528 64	
Moore & Preston, coal and		
wood	406 47	
C. B. Littlefield, wood . . .	75 14	
C. C. Riddle, sawing wood . .	27 75	
C. A. Pierce, sawing wood . .	3 50	
G. W. Varnum, sawing wood . .	1 50	
W. H. Annan, weighing coal . .	4 50	
J. B. Clarke, printing . . .	11 25	
Union Pub. Co., printing . . .	25 00	
Eugene M. Carr, sawing wood .	6 00	
J. P. Buswell, shavings . . .	1 00	
By balance on hand	174 34	
	<hr/>	\$3,265 09

FURNITURE AND SUPPLIES.

		DR.
To balance from old account . . .	\$271 93	
appropriation	500 00	
reserved fund, am't transferred	500 00	
	<hr/>	\$1,271 93
		CR.
Paid Temple & Farrington, ba-		
rometer, map fixtures, etc.,	\$21 00	
L. N. Westover, pine tables,		
etc.	19 50	

Paid Edward N. Fogg, feather dusters, etc.	\$3 70
J. N. Baker, repairing clocks	22 12
J. B. Varick, hose, brush, etc.	15 76
Daniels & Co., thermometers, dusters, etc.	71 33
Pike & Heald, brushes, brooms door-mats, etc.	102 66
Buffalo Hardware Co., desks, etc.	502 35
Ezra W. Kimball, dusters	2 25
L. J. Marcy, sciopticon, etc.	63 50
C. R. R., freight	4 05
G. A. Smith & Co., black-boards, maps, etc.	76 33
N. E. School Furniture Company, table, dusters, etc.	34 75
H. B. & W. O. Chamberlain, scales, etc.	32 00
P. C. Cheney Co., paper	2 90
D. A. Simons, dusters	3 20
J. Stickney	6 50
A. H. Hazeltine & Co.	9 00
Boston School Supply Company, map	3 60
R. D. Gay, shades, etc.	6 00
E. R. Coburn & Co., crayons, pencils, paper, etc.	51 41
A. N. Clapp, thermometer, etc.	70
J. F. Gordon, curtains, etc.	7 56
C. E. Clough, moving furniture	4 00
Horace Gordon, curtains, etc.	24 36
Manchester Locomotive Works tube-cleaner, etc.	3 50

Paid R. D. Gay	\$17 50	
By balance on hand	160 40	
	<u> </u>	\$1,271 93

BOOKS AND STATIONERY.

DR.

To balance from old account . .	\$10 02	
appropriation	500 00	
teachers' salaries, amount trans-		
ferred	100 00	
	<u> </u>	\$610 02

CR.

Paid Thomas W. Lane	\$326 77	
Temple & Farrington . .	36 02	
E. R. Coburn & Co. . .	33 26	
D. Appleton & Co. . .	72 00	
R. S. Davis & Co. . .	9 00	
W. P. Coburn	15 97	
Goodman & Gorman . .	1 50	
L. Prang & Co. . . .	19 50	
M. P. Hall	1 40	
By balance on hand	94 60	
	<u> </u>	\$610 02

PRINTING AND ADVERTISING.

DR.

To balance from old account . .	\$158 57	
appropriation	500 00	
	<u> </u>	\$658 57

CR.

Paid John B. Clarke	\$337 91	
H. H. Everett	25 25	
Union Publishing Company .	45 75	

Paid Challis & Campbell . . .	\$3 15	
Alfred Mudge & Son . . .	27 00	
Livingston & Kimball . . .	23 50	
By balance on hand . . .	196 01	
	<hr/>	\$658 57

CONTINGENT EXPENSES.

DR.

To balance from old account . . .	\$177 97	
appropriation	500 00	
teachers' salaries, amount trans-		
ferred	300 00	
	<hr/>	\$977 97

CR.

Paid Manchester Water-works, water	\$418 75
Manchester Gas Co., gas . . .	57 60
E. S. Ritchie & Sons . . .	4 65
J. N. Baker, repairing clocks,	
etc.	45 12
Wm. E. Buck, use of horse	
and carriage	118 50
B. F. Dennis, tuning pianos . .	13 50
James Bros., teams . . .	10 00
E. T. James, teams . . .	12 50
J. G. Jones, trucking . . .	4 50
L. A. Ward, trucking . . .	3 00
D. M. Goodwin	12 38
Eliza J. Woodeson, cleaning	
school-house	7 50
H. P. Young, mounting birds	2 00
Weeks & Currier, chemicals,	
etc.	18 40
N. S. Clark, ribbon, etc. . .	13 33

Paid Wm. O. Folsom, tuning pianos, etc.	\$6 75	
Brock & Driscoll, cleaning out stoves, etc.	3 75	
S. A. Dunbar, cleaning out chimney	75	
Wm. H. Vickery, keys, re- pairing lock, etc.	4 97	
J. M. Sanborn, tuning pianos	3 75	
Manchester Novelty Co., rub- ber stamp	3 50	
C. H. Wilkins, lettering diplo- mas	27 30	
J. B. Varick, disinfectant	70	
C. C. Webster, cleaning vault	8 00	
F. W. Batchelder, use of piano, etc.	8 00	
C. H. Kimball, tuning pianos	3 00	
A. Clark & Sons, repairing telescope	8 00	
Opera House Company, use of Opera House	30 00	
D. R. Prescott	1 50	
Hartford Steam Boiler Inspec- tor and Insurance Co.	100 00	
D. H. Morgan, handle for flue cleaner	75	
G. R. Vance & Co., cleaning stove-pipe, etc.	1 75	
J. A. Caverly, trucking	4 25	
Jones's express, trucking	1 50	
By balance to new account	18 02	
	<hr/>	\$977 97

CARE OF ROOMS.

DR.

To balance from old account	\$215 38	
appropriation	2,600 00	
	<hr/>	\$2,815 38

CR.

Paid John S. Avery, janitor	\$624 96	
John A. Carr, janitor	625 00	
D. H. Morgan, janitor	383 44	
G. W. Varnum, janitor	350 06	
Charles P. Ordway, janitor	87 00	
Charles M. Norton, janitor	50 00	
James Watts, janitor	248 97	
S. A. Dufbar, janitor	19 00	
Rufus Lamb, janitor	4 69	
Burton H. Young, janitor	27 00	
Anna O. Proctor, janitor	15 08	
Mary E. Dickey, janitor	4 00	
Edward McColley, janitor	6 14	
Oliver Merrill, janitor	8 25	
Emma Miller	23 70	
Susie A. Crosby, janitor	1 25	
Mary W. Mitchell, janitor	6 90	
Hiram C. Brown, janitor	5 50	
Edgar M. Carr, janitor	5 12	
Willie Woodeson, janitor	22 00	
Maggie Linen, janitor	17 25	
Lewis E. Dickey, janitor	11 67	
Augusta R. Nutt, janitor	5 40	
Eugene Proctor, janitor	5 50	
Frank Tulip	4 47	
George N. Parker, janitor	12 00	
By balance on hand	241 05	
	<hr/>	\$2,815 38

EVENING SCHOOLS.

DR.

To appropriation	\$1,000 00	
teachers' salaries, amount trans-		
ferred	500 00	
balance overdrawn	284 95	
	<hr/>	\$1,784 95

CR.

Paid John B. Mills	\$42 00
Charles E. Cochran	190 00
F. C. Livingston	132 00
Kate M. Follansbee	113 30
Josie H. Richardson	94 50
Delle E. Haines	60 00
M. A. Campbell	27 00
M. Eugenia Lord	85 00
Mary A. Tynan	45 90
Emma Mitchell	34 20
Kittie J. Ferren	45 90
Walter Gibson	2 70
Edith M. Stebbins	49 50
Mary E. Bunton	48 50
Lizzie D. Hartford	29 70
Fannie M. Kelley	49 50
M. A. Knowlton	49 50
Susie H. Frame	29 70
Fannie L. Sanborn	49 50
Georgie A. Wyman	17 10
Annie L. Prescott	5 40
Ella Hope	11 70
Hattie E. Daniels	2 70
Nora F. Kennard	9 90
Manchester Gas Co., gas	45 18
D. H. Morgan, janitor	37 50

Paid G. W. Varnum, janitor . . .	\$36 00	
John B. Clarke, printing . . .	20 81	
Henry H. Everett, printing . . .	4 00	
Union Pub Co., printing . . .	27 50	
A. N. Clapp, kerosene oil, wicks, etc.	14 93	
By balance from old account . . .	370 03	
	<hr/>	\$1,784 95

TEACHERS' SALARIES.

DR.

To balance from old account . . .	\$1,668 00	
appropriations	39,000 00	
balance overdrawn	87 69	
	<hr/>	\$40,755 69

CR.

Paid Albert W. Bacheler . . .	\$2,000 00	
G. I. Hopkins	1,000 00	
L. E. Manahan	750 00	
M. A. Buzzell	500 00	
E. J. Ela	500 00	
E. P. Sherburne	1,350 00	
C. G. Fogg	475 00	
L. R. Adams	460 00	
C. E. Reid	460 00	
D. A. Clifford	1,350 00	
A. G. Flanders	475 00	
R. M. Tuson	442 00	
Annie A. Webster	460 00	
F. S. Sutcliffe	1,000 00	
C. M. Dearborn	304 00	
Mary L. Sleeper	461 94	
A. O. Heath	460 00	

Paid C. N. Brown	\$356 50
Georgia Dow	450 00
H. M. Morrill	450 00
Ella E. Sanborn	450 00
A. E. Abbott	427 50
Nellie B. Putnam	450 00
Nellie Pearson	450 00
L. C. Gilford	367 50
Nellie M. James	375 00
E. L. Stokes	450 00
Jennie F. Bailey	450 00
Augusta L. Downs	450 00
Alice G. Lord	270 00
M. N. Bower	450 00
Jennie G. Stebbins	270 00
Mary A. Smith	371 25
Bertha L. Dean	439 00
Florence McEvoy	450 00
H. G. Flanders	450 00
C. A. Abbott	450 00
Fannie D. Moulton	430 00
L. P. Gove	450 00
Lizzie A. Burns	392 50
N. S. Bunton	475 00
M. C. Edgerly	450 00
Ellen E. McKean	450 00
Flora M. Senter	440 00
M. E. Sylvester	450 00
Clara E. Woods	450 00
Carrie I. Stevens	400 00
E. S. Prior	135 00
Ida J. Bartlett	135 00
Susie A. Crosby	112 50
Etta J. Carley	460 00

Paid Emma C. Gee . . .	\$138 00
Izetta S. Locke . . .	450 00
Georgia A. Nute . . .	475 00
S. G. Woodman . . .	425 00
Olive J. Randall . . .	425 00
Olive A. Rowe . . .	365 63
J. J. Kimball . . .	800 00
M. W. Mitchell . . .	425 00
B. F. Dame . . .	1,350 00
Julia A. Baker . . .	444 13
Mary F. Barnes . . .	451 25
Mary J. Fife . . .	460 00
Belle R. Daniels . . .	460 00
Ella F. Salisbury . . .	109 00
Carrie Gilmore . . .	450 00
E. F. Beane . . .	450 00
N. I. Sanderson . . .	405 00
Louisa R. Quint . . .	420 00
Florence A. Nichols . . .	450 00
Lizzie J. West . . .	75 00
Belle M. Kelley . . .	450 00
Lucia E. Estey . . .	430 00
C. A. Armes . . .	240 00
Anna J. Dana . . .	145 62
Annie W. Patten . . .	350 00
M. K. Webster . . .	360 00
Nettie C. Woodman . . .	30 00
Nina D. Annis . . .	266 50
Gertrude H. Brooks . . .	263 75
Emma M. Rowley . . .	263 75
Delle E. Haines . . .	310 00
Phoebe A. McGuire . . .	230 00
Eva F. Tuson . . .	88 25
Kate M. Follansbee . . .	115 37

Paid Mary E. Bunton . . .	\$118 75
Helen F. Wetherbee . . .	73 75
Josie H. Martin . . .	196 00
C. E. Cochran . . .	1 50
Nancy P. Flint . . .	10 00
Edith M. Stebbins . . .	120 00
Kittie J. Ferren . . .	86 25
Georgia A. Wyman . . .	53 75
Fannie M. Kelley . . .	10 00
Sarah E. Sprague . . .	400 00
Fannie L. Sanborn . . .	25 00
Mary G. Tynan . . .	73 50
M. W. Hubbard . . .	15 00
Ella Hope . . .	14 75
Emma W. Mitchell . . .	7 50
W. F. Brackett . . .	24 00
for books and stationery, amount transferred . . .	100 00
for contingent expenses, amount transferred . . .	300 00
for evening schools, amount transferred . . .	500 00
for repairs of school-houses, amount transferred . . .	100 00
	<hr/> \$40,755 69

TUITION.

		Dr.
To balance from old account . .	\$795 65	
Wm. E. Buck, tuition fees . .	213 37	
	<hr/>	\$1,009 02

CR.

Paid N. E. Publishing Co., school-		
books, etc.	\$18 40	
A. C. Stockin, school-books, etc.	14 29	
Willard Small, for school-		
books, etc.	43 09	
L. H. Marvel, school-books, etc.	23 94	
N. E. School Furniture Co. .	25 80	
Thompson, Brown, & Co.,		
school-books, etc.	12 00	
E. K. Dunbar & Co., cyclo-		
pedia	45 00	
Thos. W. Lane, school-books .	15 00	
C. Stearns, school-books .	14 85	
for repairs on school-houses,		
amount transferred	700 00	
E. R. Coburn & Co., school-		
books	10 20	
By balance on hand	86 45	
	<hr/>	\$1,009 02

WEBSTER-STREET SCHOOL-HOUSE.

DR.

To balance from old account . .	\$7,275 70	
appropriation	2,000 00	
H. T. Simpson & Son, over-draft	1,000 00	
J. H. Maynard, brick sold . .	75 00	
balance over-drawn	1,155 98	
	<hr/>	\$11,506 68

CR.

Paid A. F. Cate, contractor . .	\$6,990 96
M. Fitzgerald, cut stone-work .	837 00
Wm. Landry, setting under-	
pinning	81 06

Paid B. W. Robinson & Co., hand-		
ling brick, etc.	\$105	54
Buffalo Hardware Co., desks .	342	52
B. L. & C. R. R., freight on		
brick	296	13
C. H. Hodgman & Co., truck-		
ing	3	75
Drake & Carpenter, faced		
brick and cement	196	20
J. T. Fanning, architect . . .	457	41
Lamson & Marden, labor . . .	4	50
C. H. Leach, trucking	1	00
H. T. Simpson & Son, brick . .	1,736	22
N. E. School Furniture Co.,		
slate boards	18	16
Brock & Driscoll, moving		
stoves, etc.	9	50
J. B. Varick, weather-vane . .	18	00
Geo. H. Dudley, lumber and		
labor	20	79
Jas. S. Bacheler, pipe and		
plumbing	68	07
J. H. Maynard, setting bell . .	30	00
George Whitford, grading		
school-house yard	110	25
F. Allen, drawing brick . . .	84	00
Varnum & Beebe, drawing		
brick	18	00
J. A. B. Emerson, drawing		
brick	67	62
Warren Harvey, drawing		
brick	10	00
	— — —	\$11,506 68

BAKERSVILLE SCHOOL-HOUSE.

DR.

To appropriation	\$5,000 00	
O. D. Carpenter, wood sold	8 00	
	<u> </u>	\$5,008 00

CR.

Paid Frank A. Tenney, land	\$1,000 00	
J. T. Fanning, architect	150 00	
George Whitford, teaming	91 12	
O. D. Carpenter, grading	9 00	
Warren Harvey, stone founda- tion	1,199 00	
labor of men and teams	45 75	
By balance on hand	2,513 13	
	<u> </u>	\$5,008 00

TRUANT OFFICER.

DR.

To balance from old account	\$412 50	
appropriation	300 00	
balance overdrawn	37 50	
	<u> </u>	\$750 00

CR.

Paid Samuel Brooks, truant officer	\$750 00	
	<u> </u>	\$750 00

INCIDENTAL EXPENSES.

DR.

To appropriation	\$28,000 00	
Stark Manufacturing Company, on account of bridge	3,000 00	
Amoskeag Manufacturing Com- pany, on account of bridge	2,000 00	

To Weston & Hill, overdraft . . .	\$0 16	
S. Hovey, overdraft . . .	75	
H. B. Putnam, land sold . . .	150 00	
E. W. Perkins, land sold . . .	100 00	
George S. Clough, use of exca- vator	18 00	
F. P. Colby, lumber	13 75	
N. C. Hunt, lumber	75 00	
C. D. Welch, land sold	252 37	
balance overdrawn	16,202 39	
	<hr/>	\$49,812 42

CR.

Paid Julia Reardon, damage to per- son	\$100 00
William M. Webster, damage to person	100 00
Bridget Rodgers, damage to person	200 00
Adeline Geoffroy, damage to person	175 00
Julius Gendron, damage to person	200 00
Heirs of Mary J. Anderson, damage to person	250 00
Catherine Cunningham, dam- age to person	700 17
Delina Allison, damage to per- son	150 00
Apphia P. Maynard, damage to person	300 00
Margaret S. Dallas, damage to person	150 00
J. D. Hall, bounty	150 00
Charles E. French, bounty	150 00

Paid C. C. Webster, damage to sheep	\$15 00
Engene F. Wilson, damage to sheep	13 50
A. M. Wheeler, damage to team	11 85
Thomas McLeod, damage to horse	50 00
George H. Porter, damage to team	50 00
Thomas N. Allen, damage to team	7 00
Alvin Raymond, damage to team	20 00
William Glover, claim	91 76
E. D. L. Parker, execution . .	708 68
J. G. Eaton, <i>et al.</i> , execution .	14 14
Ellen G. Carvelle, execution .	372 13
S. N. Bell, execution	193 75
Buffalo Hardware Co., desks for Main-street school-house	333 82
R. M. Shirley, stone-work . .	50 00
Cogswell & Dimick, painting .	70 37
Joseph A. Poor, land	622 63
Manchester Gas Co., gas . . .	4 32
J. H. Maynard, lumber and labor	780 43
John Bryson, lumber and labor .	8 50
Head & Dowst, lumber and labor	131 67
Robertson & Haselton, lumber and labor	42 00
A. C. Wallace, lumber	1,652 71
W. W. Hubbard, lumber . . .	51 90

Paid A. J. Sawyer, lumber . . .	\$348 67
J. Hodge, lumber and labor .	216 99
Robertson & Haselton, lumber and labor	22 61
George Holbrook, lumber and labor	199 31
George H. Dudley, lumber and labor	72 51
D. H. Morgan, lumber and labor	5 00
J. F. Seaward, lumber and labor	183 34
J. F. Seaward, building addi- tion to North-Main-street school-house	4,223 00
L. M. Aldrich, lumber and labor	2 75
N. R. Bixby, lumber and labor	135 00
W. Ireland, building cottage on Park street	1,700 00
Andrews & Rief, building cot- tage on Maple street . . .	1,300 00
Alpheus Gay, building barn on , Park street	368 94
Walter Neal, lumber and labor	35 70
Manchester Gas Co., gas .	41 58
Manchester Gas Co.; edge- stone	70 88
F. O. Clement, printed labels	5 62
D. K. White, taking census .	116 88
H. D. Lord, taking census .	126 00
Fred W. Cheney, taking cen- sus	54 46

Paid Daniel F. Healy, taking census	\$160 44
J. M. Crawford, taking census	148 48
Isaac Whittemore, taking census	78 30
F. O. Clément, taking census	69 52
George E. Glines, paper, postage, etc.	5 00
Joseph Dubois, interpreter for census-takers	36 00
L. D. Goodwin, interpreter for census-takers	36 00
Ferdinand Riedel, interpreter for census-takers	4 00
Patrick Finn, burying nuisances	6 00
George Whitford, trucking .	77 85
C. E. Clough, trucking . .	2 50
J. G. Jones, trucking . . .	3 75
C. H. Hodgman & Co., trucking	5 25
C. H. Simpson, teams . . .	6 50
Cavanaugh Bros., teams .	44 00
George W. Reed, teams . .	3 00
C. C. Perry, teams	41 00
James Bros., teams	103 50
E. T. James, teams	141 25
William Stearns, coal for hay-scales	4 00
G. W. Varnum	4 00
Luther Pattee, professional services	25 00
Wilkins & Collity, professional services	100 00

Paid L. B. How, professional services	\$25 00
George A. Crosby, professional services	30 00
W. W. Pillsbury, professional services	3 00
J. M. Collity, professional services	59 00
W. J. Sleeper, vaccinating persons	162 00
Sturgis & Dodge, professional services	50 00
J. M. Collity, vaccinating persons	742 50
W. W. Wilkins, return of births and deaths . . .	4 00
James Sullivan, return of births and deaths . . .	41 00
O. D. Abbott, return of births and deaths	8 25
H. de W. Carvelle, return of births and deaths . . .	5 00
L. Pattee, return of births and deaths	3 50
C. M. Dodge, return of births and deaths	7 00
L. B. How, return of births and deaths	3 50
John Ferguson, return of births and deaths	18 50
J. W. Mooar, return of births and deaths	6 50
William A. Webster, return of births and deaths . . .	1 50

Paid L. M. French, return of births and deaths	\$11 00
Anna M. Twiss, return of births and deaths	25
Charles F. George, return of births and deaths	25
C. F. Bonney, return of births and deaths	2 75
L. French, return of births and deaths	16 75
M. Richard, return of births and deaths	12 25
J. A. Jackson, return of births and deaths	5 25
J. P. Walker, return of births and deaths	2 75
Emil Custer, return of births and deaths	2 50
J. L. Robinson, return of births	5 50
G. E. Roy, return of births	2 75
J.W. D. MacDonald, return of births	19 00
Temple & Farrington, books and stationery	303 97
Temple & Farrington, books and stationery	2 88
Thomas W. Lane, books and stationery	13 16
Thomas W. Lane, books and stationery	4 70
Union Publishing Company, printing	103 37

Paid Republican Press Association,	
printing	\$4 80
H. H. Everett, printing	3 50
J. B. Clarke, printing	233 79
Sampson, Davenport, & Co.,	
directories	1 50
T. A. Lane, plumbing, etc.	213 38
F. H. Redfield, making re-	
turns, etc.	1 30
Pike & Heald, piping, water-	
ing-troughs, etc.	155 58
Palmer & Garmon, black-	
smithing	8 69
James S. Bacheler, plumb-	
ing, etc.	225 79
L. C. Morrill, stationery, etc.	1 75
Thorpe & Avery, tin	2 50
J. G. Greer, stone-work, etc.	8 00
W. H. Vickery, sealing	
weights, etc. for city	5 10
Manchester Water-works, wa-	
ter	54 94
A. H. Lowell, iron-work	307 43
Drake & Carpenter, cement	15 15
J. B. McCrillis & Son, ambu-	
lance	75 00
Pike & Heald, stove-bolts	72
Derry & Co., iron-work	72 70
Bunton & Wilbur, iron-work	1 00
Hutchinson Bros., iron-work	
and labor	19 60
Warren Harvey, stone	6 00
Daniels & Co., hardware	98 97
J. B. Varick, hardware	8 50

Paid Wm. C. Rogers, hardware .	\$23 34
J. M. Crawford, clerical labor	38 13
Wm. Caldwell, bounty on crows	90
Levi Caldwell, bounty on crows	30
A. J. Peaslee, bounty on crows	20
F. A. Emery, bounty on crows	20
Wm. Burlingame, bounty on crows	20
J. Adams, bounty on crows .	20
J. L. Stickney, bounty on crows	40
J. Page, bounty on crow .	10
J. C. Snow, bounty on crows .	90
Alfred Welcome, bounty on crow	10
L. R. Cross, bounty on crows .	30
Thomas Lane, bounty on crow	10
F. A. Barton, bounty on crow	10
Warren Davis, bounty on crows	1 00
Harry E. Clay, bounty on crow	10
Benjamin T. Rounds. bounty on crow	10
George Lamper, bounty on crow	10
E. O. Foss, watering-troughs .	418 00
John R. Stokes, stone-work .	411 75
Wm. Landry, stone and work	1,169 65
D. W. Garland & Co., stone and work	690 51

Paid Charles E. Rowe, stone-work .	\$44 50
Lamson & Marden, black-smithing	27 35
J. A. Brown, stone-work .	281 67
Warren Harvey, stone-work .	162 95
Corrugated Metal Company, extension McGregor bridge	8,132 82
Stephen Gardner	1 50
N. P. Kidder, making city report	150 00
N. P. Kidder, making return of births, marriages, and deaths	529 90
D. W. King, recording deeds	2 60
Amoskeag Manufacturing Co., land	2,215 73
Amoskeag Manufacturing Co., rent of wood-stand	100 00
Amoskeag Manufacturing Co., lumber and stone	84 20
J. J. Abbott, painting	71 86
C. R. Colley & Co., painting .	378 17
C. H. Reed, professional services	94 00
P. W. Follansbee & Son, moving buildings	300 00
J. A. Barker, care of boiler at city library	113 50
George H. Allen, surveying-instruments, etc.,	112 85
George H. Allen, horse-car tickets, etc.	14 20
George C. Vickery, services as assistant engineer . . .	380 00

Paid Wm. D. Hunter, rod-man for engineer	\$281 00
H. W. Horne, rod-man for engineer	304 00
Manchester Locomotive Works iron-work	53 28
James S. Bacheler, steam-pip- ing, etc.	760 00
Allen D. Eastman	18 50
Hutchinson Bros., repairing lawn-mower	23 40
Wyman & Gray, painting fence	40 00
O. D. Carpenter, mason-work	8 50
D. M. Goodwin, stove, pipe, etc.	28 60
Bennett & Lord, plastering	31 75
Hills & Sherer, painting pest- house	120 95
B. W. Robinson & Co., mason- work	609 51
Wm. McElroy, making re- turns, etc.	1 35
B. L. & C. R. R., freight	28 34
Manchester Mills, use of derrick	25 00
Manchester Locomotive Works steel boilers	1,075 00
Manchester Locomotive Works labor	20 00
Wm. R. Patten, witness- fees, etc.	84 97
Manchester Water-works, wa- ter	83 47

Paid A. M. Wheeler, land . . .	\$67 91
H. B. Putnam, allowance for horse-hire, etc.	149 50
George S. Clough & Co., cleaning vaults	75 00
Judith Sherer, matron at pest-house	360 00
I. R. Dewey, care of lamps at soldiers' monument	9 00
Stephen Gardner, care of boiler at engine-house	57 50
J. T. Fanning, plan and speci- fications for North-Main- street school-house	75 00
Charles H. Robie, concreting	36 27
Drake & Carpenter, cement	19 35
J. F. James, professional ser- vices	7 00
Fire King, reserve company, pumping out cellars	30 20
A. F. Stevens, professional services	100 00
A. Quimby, stationery	1 10
J. F. Gillis, stationery	85
John McEvoy, labor on exca- vator	4 00
E. P. Johnson & Co., straw	7 48
Brock & Driscoll, stove, pipe, etc.	12 05
Adams & Lamprey, lamps, etc. at pest-house	1 20
Weston & Hill	16
S. Hovey, dippers and chains	1 50
J. F. Gordon	8 75

Paid City Farm, labor	\$4 00
D. M. Goodwin, dippers, etc. .	7 38
P. A. Devine, burying nuisances	2 50
D. W. King, recording deeds .	1 00
D. R. Prescott, cash paid witnesses, etc. . . .	24 12
Mead, Mason, & Co., land on Granite street	4,340 43
J. N. Baker, care of school-clocks	70 00
Howe Novelty Manufacturing Co., house-numbers . .	15 25
H. D. Gordon, chairs . . .	7 00
J. B. Unruh, numbering houses	2 90
Pettee & Whipple, cement .	21 54
Fairbanks, Brown, & Co., repairing scales . . .	5 50
Hale & Whittemore, picture-frames for ex-mayors . .	57 75
Tristram Berry, posting ordinances	2 00
G. W. Varnum, labor, ordinances	6 25
L. A. Proctor, shade trees .	12 75
Pettee & Adams, cement .	9 40
H. W. Herrick, painting portraits of ex-mayors . .	32 00
E. A. Straw, stone-roller .	15 00
J. C. Young & Co., roofing .	67 73
Henry Parker, labor . . .	17 75
Charles E. Crombie, shade trees	58 75

Paid Manchester P. O., stamps	\$1 00
George A. Alger, repairing clock	1 00
Edward Bowen, labor	19 50
W. H. Laskey, rubber bands, etc.	50
George F. Boshier & Co., sell- ing land, etc.	30 00
Hills & Sherer, painting	22 52
C. W. Butler, wall-paper	7 20
N. A. Sleeper, labor	3 00
Samuel Brown, storage of road builder	2 00
H. T. Simpson & Son, brick	204 00
J. C. Young & Co., roofing	201 00
D. R. Prescott, serving no- tices, etc.	12 66
L. M. Aldrich, carpenter-work	10 88
Wm. H. Newhall, labor in Amoskeag cemetery	10 12
P. Finn, burying nuisances	7 50
George W. Varnum, distribut- ing health notices	10 00
Daniel Healy, whitewashing tree-boxes	41 27
C. H. Reed, professional ser- vices	26 00
T. F. Collins, interpreter for census-takers	30 00
George H. Stearns, brooms	65
Henry Parker, labor	5 50
John Burns, overpayment of tax	2 32
A. Rivard, overpayment of tax	1 76

Paid Wm Shepherd, care of Den-	
nis Murphy	\$1 00
J. C. Young & Co., roofing .	60 00
Buff & Berger, repairing of	
transit	20 50
Amoskeag M'f'g Co., brick .	1 60
Robert A. Ray, on account of	
Knibbs' suit	714 29
I. T. Webster, repairing wa-	
tering-trough	4 70
Fairbanks, Brown, & Co., re-	
pairing city scales	61 95
Clough & Clark, professional	
services	6 00
U. S. & Canada Express .	15
J. C. Young, roofing . . .	49 25
Sulloway, Topliff, & O'Connor,	
professional services . . .	244 25
D. W. King, recording deeds	2 56
J. M. Plaisted, labor . . .	1 60
George E. Morrill, delivering	
tax bills	42 50
Weston & Hill	5 23
Western Union Telegraph Co.,	
telegrams	2 23
J. E. Chase, pumping out cel-	
lars	1 60
George H. Allen, repairs on	
instruments, etc.	13 98
George Whitford, teaming .	11 50
Sarah S. Reynolds, abatement	
of taxes	37 08
J. W. Fellows, professional	
services	23 84

Paid Adams & Lamprey, brooms .	\$1 12	
C. C. Chase, stone . . .	25 00	
G. R. Vance & Co., dippers .	50	
D. B. Brooks & Co., ink .	75	
Waldo E. Gilmore, making re-		
turns, etc.	2 75	
David Thayer, labor . . .	2 00	
Edward N. Fogg, lamps, oil,		
etc.	2 48	
D. C. Whittemore	20 00	
S. B. Putnam, expenses to		
Concord, N. H.	1 00	
for labor of men and teams .	982 88	
	<hr/>	\$49,812 42

VALLEY CEMETERY.

DR.

To appropriation	\$1,000 00	
wood sold	104 88	
water rent	69 75	
digging graves	83 00	
tomb fees	58 50	
care of lots	156 75	
reserved fund, am't transferred	880 93	
	<hr/>	\$2,353 81

CR.

Paid F. B. Balch, superintendent .	\$486 54
Benj. Stevens, superintendent	5 00
F. H. Colby, labor . . .	161 25
Manchester Water-works, wa-	
ter	52 40
Warren Harvey, teaming, etc.	49 65
James Emerson, grading .	231 74

Paid George Whitford, sand . . .	\$62 50	
L. B. Bodwell & Co., canvas . . .	8 25	
A. J. Sawyer, lumber . . .	444 01	
Pike & Heald, pipe, valves, labor, etc.	478 54	
Daniels & Co., hardware . . .	1 20	
J. B. Varick, hardware . . .	21 20	
J. J. Abbott, painting . . .	7 53	
P. W. Follansbee & Son, mov- ing building	25 00	
Palmer & Garmon, resetting, grave-stones	75 07	
J. R. Carr, painting . . .	133 60	
Henry Fisk, pipe, urinal, and labor	81 33	
John M. Evans & Co., labor . . .	11 00	
Warren Harvey, labor . . .	4 00	
By balance to new account . . .	14 00	
	<hr/>	\$2,353 81

PINE GROVE CEMETERY.

DR.

To balance from old account . . .	\$1,129 39	
appropriation	1,500 00	
lots sold	1,297 38	
lumber sold	302 92	
B. A. Stearns, digging graves . . .	114 00	
B. A. Stearns	60 34	
	<hr/>	\$4,404 03

CR.

Paid B. A. Stearns, superintendent	\$650 75
Daniels & Co., hardware . . .	109 90
Fellows & Co., blacksmithing	16 50

Paid Temple & Farrington, books and stationery	\$40 16	
A. C. Wallace, lumber	19 14	
J. Hodge, lumber	11 57	
Head & Dowst, lumber	35 02	
J. F. James, treasurer, post- age, etc.	25 80	
Pike & Heald, plumbing	3 04	
George H. Allen, expenses to Boston, Mass.	4 00	
C. H. Leach, trucking	3 00	
Manchester Gas. Co., iron safe	30 00	
Palmer & Garmon, grave-num- bers	32 00	
J. J. Abbott, painting	4 50	
balance to new account	846 19	
labor of men and teams	2,572 46	
	<hr/>	\$4,404 03

FIRE DEPARTMENT.

DR.

To appropriation	\$15,000 00	
S. C. Forsaith & Co., old hose- carriage	50 00	
Charles H. Rogers, overdraft	42 00	
reserved fund, am't transferred	484 50	
	<hr/>	\$15,576 50

AMOSKEAG STEAM FIRE ENGINE Co. No. 1.

CR.

Paid Manchester Gas Co., gas	\$46 98
George W. Butterfield, driver	216 00
Chas. H. Rogers, extra driver	21 00

Paid T. A. Lane, hose	\$1 24	
E. W. Kimball, repairing harness, etc.	8 63	
Daniels & Co., hardware	1 75	
Tristram Berry, pulley-rope, etc.	3 50	
L. B. Bodwell & Co., wood and coal	105 94	
Geo. C. Hoyt, wood	75	
John Garland, wood	2 57	
Boston Belting Company, hose	15 68	
Company's bill for services	1,147 00	
	<hr/>	\$1,571 04

N. S. BEAN STEAM FIRE ENGINE Co. No. 4.

CR.

Paid Manchester Gas Co. gas	\$48 60	
A. B. Cushing, driver	198 00	
Jerry Lane, driver	18 00	
Chas. H. Rogers, extra driver	21 00	
A. J. Morse, extra driver	5 00	
Geo. H. Stearns, oil, matches, etc.	5 80	
Manchester Locomotive Wk's, repairing tank	2 50	
E. W. Kimball, repairing harness, etc.	12 74	
Daniels & Co., hardware	1 93	
L. B. Bodwell & Co., wood and coal	105 94	
Geo. C. Hoyt, wood	75	
John Garland, wood	2 56	
Company's bill for services	1,144 60	
	<hr/>	\$1,567 42

PENNACOOK HOSE CO. No. 1.

CR.

Paid Manchester Gas Co., gas	\$66 06	
Walter L. Blenus, driver	600 00	
George H. Porter, extra driver	18 00	
J. M. Plaisted, extra driver	1 00	
George H. Stearns, matches, oil, etc.	3 95	
C. B. Littlefield, sponge and castor oil	95	
Manchester Locomotive W'ks, repairing hose-carriage	15 00	
E. W. Kimball, lead harness, etc.	34 10	
Manchester One-Price Cloth- ing Co., blanket	6 00	
Daniels & Co., hardware	1 76	
Fellows & Co., iron-work	2 15	
Tristram Berry, repairing chairs	1 50	
Edward N. Fogg, duster	2 50	
E. P. Johnson & Co, coal	32 12	
L. B. Bodwell & Co., coal and wood	102 95	
Company's bill for services	1,561 80	
	<hr/>	\$2,449 84

MASSABESIC HOSE CO. No. 2.

CR.

Paid Manchester Gas Co., gas	\$27 54
Walter Seaward, driver	73 25
George H. Porter, driver	16 50
E. W. Kimball, repairing har- ness, etc.	2 90
H. C. Ranno, harness, etc.	51 25

Paid Daniels & Co., hardware .	\$4 25	
Edward N. Fogg, cuspidores .	3 00	
W. C. Smith, hose-cart hitches	12 50	
Geo. C. Lord, matches, etc. .	63	
L. B. Bodwell & Co., coal .	30 41	
Samuel Eastman & Co., span-		
ners	12 00	
Company's bill for services .	1,007 00	
	<hr/>	\$1,241 23

E. W. HARRINGTON HOSE COMPANY No. 3.

CR.

Paid Manchester Gas Co., gas .	\$34 20	
J. T. O'Dowd, driver . .	374 00	
Arthur Dow, extra driver .	7 50	
T. A. Lane, hose, and repair-		
ing steam-gauge . . .	7 75	
E. W. Kimball, blankets, etc.	11 00	
Edwin E. Weeks, cleaning		
flues and steamer . . .	3 00	
Thomas F. Dodge, labor on		
steamer	2 00	
M. W. Ford, labor on steamer	2 00	
H. Fradd & Co., matches,		
brooms, etc.	2 75	
Rowell & Burns, coal . .	26 25	
E. P. Johnson & Co., coal .	40 00	
L. B. Bodwell & Co., wood .	8 50	
A. C. Wallace, wood . . .	4 50	
H. C. Ranno, repairing har-		
ness, etc.	4 85	
Barton & Co., crash . . .	2 72	
Company's bill for services .	1,002 20	
	<hr/>	\$1,533 22

EXCELSIOR HOOK AND LADDER CO. NO. 1.

CR.

Paid Manchester Gas Co., gas	\$62 46	
Charles Denyon, driver	166 50	
John Clifford, extra driver	7 00	
Charles H. Rogers, extra driver	21 00	
A. J. Robie, driver	12 50	
George H. Stearns, matches, oil, etc.	94	
Manchester Locomotive W'ks., repairing gong, etc.	11 50	
T. A. Lane, hose, repairing lantern, etc.	7 93	
E. W. Kimball, repairing harness, etc.	3 95	
H. C. Ranno, ring halter, etc.	6 50	
P. Ducherme, repairing bridles	1 75	
J. B. McCrillis & Son, repairing carriage	14 67	
Edward N. Fogg, duster	2 00	
Moore & Preston, wood	9 50	
L. B. Bodwell, wood and coal	102 95	
Company's bill for services	1,930 00	
	<hr/>	\$2,361 15

ENGINEERS DEPARTMENT AND MISCELLANEOUS.

CR.

Paid Manchester Gas Co., gas	\$0 72
Manchester Water-works, water	791 37
Littlefield & Smith, muriate of ammonia	3 33
W. L. Blenus, labor on hose	5 25

Paid Weston & Hill, rug, mat, crash, etc.	\$13 62
Manchester Locomotive Wk's., repairing hose couplings .	12 00
J. B. McCrillis & Son, repair- ing supply wagon	4 25
James Butler, shoveling out hydrants	1 25
Charles Griffin, shoveling out hydrants	6 25
J. Sullivan, shoveling out hy- drants	2 50
J. Downing, shoveling out hy- drants	2 50
C. M. Spinney, shoveling out hydrants	1 25
M. L. Donahoe, scrubbing- brushes	5 00
Manchester One Price Cloth- ing Co., reefers	153 00
W. C. Rogers, hardware .	12
Daniels & Co., hardware .	4 91
W. H. Vickery, keys . . .	50
Tristram Berry, repairing hose	7 50
Edward N. Fogg, cuspidores .	1 50
C. H. Hodgman & Son, truck- ing	1 00
Stephen Gardner, care of boiler at engine-house	201 50
J. B. Clarke, printing . .	22 25
T. W. Lane, stationery . .	10 80
Boston, Lowell, and Concord Railroad, freight	4 65
J. Stickney, repairing hose .	7 25

Paid Granite State Telephone Co. .	\$1 20	
Dennis Sullivan, running supply wagon	41 00	
Samuel Eastman & Co., hose	2,290 90	
Samuel Eastman & Co., repairing hose	18 00	
American Fire Hose Co., Jacket Am. Coup.	450 00	
J. P. Scollay & Co, polish .	2 00	
T. W. Lane, salary as chief engineer	300 00	
A. C. Wallace, salary as assistant engineer	100 00	
B. C. Kendall, salary as assistant engineer	100 00	
O. E. Kimball, salary as assistant engineer	100 00	
Sam C. Lowell, salary as assistant engineer	100 00	
Sam C. Lowell, clerk of board	25 00	
W. L. Blenus, repairing hose	3 00	
Pike & Heald, plumbing .	3 19	
Plumer, Holton, & Co., overalls	37 50	
F. M. Forsaith	2 85	
D. M. Goodwin	13 69	
	<hr/>	\$4,852 60

RECAPITULATION.

Paid Amoskeag S. F. E. Co. No. 1	\$1,571 04
N. S. Bean S. F. E. Co. No. 4	1,567 42
Pennacook Hose Co. No. 1 .	2,449 84
Massabesic Hose Co. No. 2 .	1,241 23

Paid E. W. Harrington Hose Co.	
No. 3	\$1,533 22
Excelsior Hook and Ladder	
Co. No. 1	2,361 15
Engineers' department and	
miscellaneous	4,852 60
	<u> </u> \$15,576 50

FIRE-ALARM TELEGRAPH.

		DR.
To appropriation	\$1,000 00	
	<u> </u>	\$1,000 00

CR.

Paid Tristam Berry, superintendent	\$300 00
Tristam Berry, moving poles	2 25
Wm. T. Smith, blue vitriol .	135 13
A. H. Lowell, zines . . .	129 30
Wm. C. Rogers, hardware .	10 08
Pike & Heald, lantern, etc. .	1 87
Thomas A. Lane, hair felting	96
James Bros., team	1 00
Dennis Sullivan, trucking .	2 65
C. H. Hodgman & Co., truck-	
ing	1 00
Boston, Lowell, and Concord	
Railroad, freight	4 89
John Leville, labor	2 25
Rhody Carroll, labor . . .	2 25
John Kelly, labor	2 25
Michael Sheehan, labor . .	2 25
Stearns & George, Kerite wire,	
etc.	18 00

Paid Edwin Rogers, Kerite wire,	
etc.	\$15 00
James Bros., teams . . .	3 50
James Baldwin & Co., tele-	
graph-pins	12 50
J. B. Clarke, printing . .	6 00
Bunton & Wilbur, iron-work .	8 35
Thomas W. Lane, team . .	3 00
A. C. Wallace, lumber . .	1 16
Head & Dowst, lumber . .	4 05
By reserved fund, am't transferred	330 31
	<hr/>
	\$1,000 00

POLICE DEPARTMENT.

DR.

To balance from old account . .	\$3,424 70
appropriation	12,000 00
H. W. Longa, fines and costs .	5,426 73
J. C. Bickford, fees and costs	2,204 63
A. C. Osgood, overdraft . .	2 12
	<hr/>
	\$23,058 18

CR.

Paid N. P. Hunt, judge of police	
court	\$1,500 00
I. L. Heath, assistant justice	
of police court	66 00
A. C. Osgood, assistant jus-	
tice of police court . . .	4 24
J. C. Bickford, clerk of police	
court	600 00
A. D. Stark, city marshal .	68 15
A. D. Stark, witness fees, etc.	61 49
H. W. Longa, city marshal .	783 40

Paid H. W. Longa, assistant marshal	\$58 33
H. W. Longa, witness fees, etc.	410 06
M. J. Jenkins, assistant marshal	555 72
M. J. Jenkins, captain of night watch	166 50
Edgar Farrar, captain of night-watch	628 76
Eben Carr, night watchman	737 00
Hiram Stearns, night watchman	750 00
J. F. Cassidy, night watchman	753 00
James Bucklin, night watchman	736 00
Thomas Frain, night watchman	867 00
Ira P. Fellows, night watchman	791 00
Wm. H. Newhall, night watchman	771 00
E. Farrar, night watchman	194 00
James F. Dunn, night watchman	754 00
Michael Marr, night watchman	379 00
Lafayette Tebbetts, night watchman	736 00
Charles H. Reed, night watchman	738 00
Francis Bourrassau, night watchman	760 00
Gideon Rochette, night watchman	710 00

Paid Philip Reischer, night watchman	\$740 00
Zadoc B. Wright, night watchman	26 00
Leroy M. Streeter, night watchman	520 00
Charles S. Brown, night watchman	539 00
Jeremiah Murphy, night watchman	343 00
John C. Colburn, day police .	778 00
Randall W. Bean, day police .	788 00
Harvey H. Hill, special police	8 00
Frank Warren, special police .	2 00
Archibald Hill, special police	27 00
David C. Jackson, special police	9 00
John Dunn, special police .	84 00
Charles Burke, special police .	2 00
Sylvester Laroche, special police	2 00
Joseph Goodwin, special police	99 00
E. G. Woodman, special police	7 00
Edward H. Holmes, special police	20 00
Jeremiah Murphy, special police	279 00
Moses Tremblay, special police	70 00
Samuel L. Mitchell, special police	87 00
John Waters, special police .	1 00
Michael Fox, special police .	195 00
Walter Wright, special police	6 00
C. D. Emerson, special police	3 00
Geo. W. Minard, special police	320 00

Paid John Carr, special police .	\$118 00
L. M. Gould, special police .	2 00
Chas. W. Quimby, special police	2 00
B. N. Wilson, special police .	41 00
Fred Wilson, special police .	10 00
Thomas R. Northrup, special police	1 00
Jas. E. Bailey, special police .	16 00
C. D. Wells, special police .	4 00
E. A. G. Holmes, special police	4 00
S. P. Chase, special police .	2 00
A. B. Mack, special police .	1 00
J. H. Groux, special police .	4 00
W. D. Jillson, special police .	3 00
G. W. Woodman, special police	2 00
Geo. Harwood, special police	2 00
A. M. Rowell, special police .	5 00
B. A. Stearns, special police .	2 00
Joseph Fellows, special police	2 00
Charles O'Shaughnessey, spe- cial police	2 00
C. E. Cochran, professional services	2 00
N. H. Wilson, professional services	2 00
D. P. & D. L. Perkins, pro- fessional services . . .	8 00
Temple & Farrington, station- ery	3 78
Thomas W. Lane, stationery .	13 10
W. H. Vickery, keys . . .	2 25
Challis & Campbell, printing	112 30
John B. Clarke, printing .	35 45
Livingston & Kimball, printing	5 25

Paid D. Evans & Co., vest buttons	\$20 00	
P. C. Cheney Co.	4 71	
Granite State Telephone Co. .	100 05	
Western Union Telegraph Co., telegrams	13 46	
Daniel Davis, meals for lodg- ers and prisoners	229 55	
Brigham & Pratt, crackers . .	17 06	
Smith & Bly, crackers	6 00	
Cavanaugh Bros., team	1 00	
J. A. Brown, teams	2 50	
E. T. James, teams	37 50	
James Bros., teams	37 25	
Manchester Gas Co., gas	354 42	
H. D. Gordon, chairs	9 72	
Pike & Heald, dippers, etc. . .	11 03	
Dr. O. D. Abbott, professional services	3 00	
C. M. Dodge, professional ser- vices	7 00	
Sturgis & Dodge, professional services	2 00	
C. H. Wood, lettering slates . .	1 00	
Frank Eaton, matches	6 00	
A. J. Young, team	2 00	
By balance to new account . . .	2,252 15	
	<hr/>	\$23,058 18

CITY HALL.

DR.

To balance from old account . .	\$137 34	
rents	2,192 85	
balance overdrawn	1,936 98	
	<hr/>	\$4,267 17

Paid Manchester Gas Co., gas	\$201 24
Manchester Water-works, wa- ter	2,347 80
Celinda German	126 10
Fellows & Co., iron-work	5 90
W. H. Vickery, keys, etc.	21 00
James S. Bacheler, plumbing, etc.	81 59
Thos. A. Lane, plumbing, etc.	5 32
Pike & Heald, plumbing, etc.	17 57
T. A. Lane, plumbing, etc.	44 07
J. Hodge, lumber	22 53
J. H. Maynard	5 50
A. J. Sawyer, lumber	4 61
A. C. Wallace, lumber	1 55
Geo. Holbrook, lumber and labor	12 60
E. A. G. Holmes, lumber and labor	157 88
L. M. Aldrich, lumber and labor	8 54
Walter Neal, lumber and labor	24 46
Geo. H. Dudley, lumber and labor	53 39
J. B. Varick, hardware, etc.	10 54
Daniels & Co., hardware, oil, etc.	35 74
J. L. Kelly, painting	58 29
J. J. Abbott, painting	25 68
E. P. Johnson & Co., coal	480 52
L. B. Bodwell & Co., coal and wood	135 68
H. D. Gordon, chairs	39 72

Paid Geo. H. Stearns, brooms, etc.	\$6 13
Temple & Farrington, cord, twine, etc.	2 87
Granite State Telephone Co. .	9 00
Weston & Hill, matting, etc. .	18 95
J. L. Wentworth, cleaning carpets	4 75
Straw & Lovejoy, repairing clocks	23 25
Mrs. Bancroft, labor . . .	75
Mrs. I. Morse, labor . . .	1 25
Edward N. Fogg, duster . .	2 00
C. W. Butler, material and labor on cells	115 12
D. A. Simons, umbrella-stand etc.	9 00
A. M. Eastman, matches, oil, etc.	4 20
Sanborn Carriage Co., wheel- barrow	1 75
E. P. Richardson	10 00
T. L. Thorpe, waste, etc. . .	5 52
C. H. Wood, painting signs, etc.	16 90
C. W. Butler, window-shades etc.	24 00
J. C. Young & Co., repairing roof	10 34
A. H. Paige, numbers for desks	1 80
J. A. Baker, key tags, etc. .	2 00
J. B. Barnes, key tags . . .	75
B. W. Robinson & Co. mason work	25 65

Paid Hale & Whittemore, picture-frames	\$4 50	
H. L. Donahue, scrubbing-machine	2 00	
M. J. Kendrick, trucking	1 25	
J. E. Keefe, matches	6 00	
Weeks & Currier, borax	1 40	
D. D. Pennoyer & Co. painting roof	19 72	
Horace Gordon	1 00	
J. S. Holt & Co., soap	7 50	
	<hr/>	\$4,267 17

PRINTING AND STATIONERY.

DR.

To appropriation	\$1,500 00	
reserved fund, am't transferred	64 89	
	<hr/>	\$1,564 89

CR.

Paid John B. Clarke	\$980 11	
Challis & Campbell	69 37	
Union Publishing Co.	318 80	
Temple & Farrington	81 99	
H. H. Everett	44 50	
T. W. Lane	9 54	
S. B. Putnam	3 65	
Manchester Post-Office	33 93	
J. F. Gordon	5 95	
J. Q. Bradish	6 25	
W. E. Moore	4 50	
W. P. Coburn	1 80	
Livingston & Kimball	4 50	
	<hr/>	\$1,564 89

REPAIRS OF BUILDINGS.

DR.

To appropriation	\$1,500 00	
	<hr/>	\$1,500 00

CR.

Paid J. H. Maynard, lumber and labor	\$121 63	
W. Ireland, lumber and labor	245 00	
George H. Dudley, lumber and labor	8 17	
George Holbrook, lumber and labor	24 40	
Head & Dowst, lumber	6 25	
William W. Hubbard, lumber	47 20	
A. J. Sawyer, lumber	12 61	
L. M. Aldrich, lumber and labor	4 80	
Tristram Berry, carpenter-work	3 75	
D. H. Morgan, carpenter-work	2 50	
J. B. Varick, hardware	80 12	
Daniels & Co., hardware	50	
Pettee & Whittle, cement	10 50	
Pettee & Adams, cement	49 60	
James R. Carr, painting, etc.	64 68	
J. J. Abbott, painting	42 40	
J. L. Kelly, painting	22 92	
James S. Bacheler, radiators, etc.	297 00	
James S. Bacheler, plumbing, etc.	68 92	
B. F. Fogg & Co., plumbing, etc.	6 96	
Pike & Heald, plumbing, etc.	73 50	
Thomas A. Lane, plumbing, etc.	52 82	

Paid A. N. Clapp, hardware . . .	\$0 63	
W. H. Vickery, repairing lock . . .	35	
R. D. Gay, room-paper, etc. . .	14 75	
J. T. Fanning, professional services	5 00	
Bunton & Wilbur, iron-work . . .	4 25	
Goodwin Bros., lumber	19 61	
B. W. Robinson & Co., mason work	8 37	
J. C. Young, repairing roof . . .	5 90	
Temple & Farrington, paper for labor of men and teams . . .	4 80	
reserved fund, am't transferred . .	39 97	
	150 14	
	<hr/>	\$1,500 00

CITY LIBRARY.

DR.

To balance from old account . . .	\$334 51	
appropriation	3,000 00	
	<hr/>	\$3,334 51

CR.

Paid Manchester Gas Co., gas . . .	\$197 82	
Manchester Water-works, wa- ter	26 25	
M. J. Buncher, librarian	600 00	
M. J. Buncher, cleaning shelves, floors, etc.	49 68	
George W. Burleigh, assistant librarian	166 50	
George W. Cook, assistant librarian	123 75	
Temple & Farrington, binding books, etc.	212 53	

Paid Livingston & Kimball, printing	\$106 05	
J. B. Clarke, printing . . .	11 00	
L. B. Bodwell & Co., coal and wood	537 96	
E. P. Johnson & Co., coal and wood	43 55	
Fellows & Co., iron poker and bolts	1 00	
L. B. Clough, insurance . . .	32 50	
Straw & Lovejoy, repairing clock	3 00	
trustees, appropriation for new books	1,000 00	
N. P. Hunt, postage	4 13	
By balance to new account . . .	218 89	
	<hr/>	\$3,334 51

MILITIA.

		DR.
To appropriation	\$800 00	
	<hr/>	\$800 00
		CR.
Paid Amoskeag Veterans . . .	\$100 00	
Head Guards	100 00	
Manchester Cadets	100 00	
Manchester War Veterans . . .	100 00	
First N. H. Battery	100 00	
City Guards	100 00	
Sheridan Guards	100 00	
First Regiment, headquarters	100 00	
	<hr/>	\$800 00

PAYMENT OF FUNDED DEBT.

DR.

To balance from old account . . .	\$1,600 00	
appropriation	24,000 00	
	<u> </u>	\$25,600 00

CR.

Paid Suncook Valley R. R. bonds .	\$3,100 00	
city bonds	22,500 00	
	<u> </u>	\$25,600 00

ABATEMENT OF TAXES.

DR.

To appropriation	\$2,500 00	
	<u> </u>	\$2,500 00

CR.

Paid sundry persons	\$2,172 07	
By reserved fund, am't transferred	327 93	
	<u> </u>	\$2,500 00

DISCOUNT ON TAXES.

DR.

To appropriation	\$6,500 00	
reserved fund, am't transferred	851 59	
	<u> </u>	\$7,351 59

CR.

Paid George E. Morrill, collector .	\$7,351 59	
	<u> </u>	\$7,351 59

STATE TAX.

DR.

To appropriation	\$41,060 00	
	<u> </u>	\$41,060 00

CR.

Paid S. A. Carter, state treasurer .	\$41,060 00	
	<u> </u> <u> </u>	\$41,060 00

COUNTY TAX.

DR.

To appropriation	\$32,000 00	
	<u> </u>	\$32,000 00

CR.

Paid E. P. Richardson, county		
treasurer	\$31,323 37	
reserved fund, am't transferred	676 63	
	<u> </u>	\$32,000 00

OUTSTANDING TAXES.

List for 1874	\$4,226 63	
“ 1875	4,089 66	
“ 1876	3,011 59	
“ 1877	2,871 18	
“ 1878	3,090 68	
“ 1879	972 53	
“ 1880	1,279 23	
“ 1881	1,377 48	
	<u> </u>	\$20,918 98

TAXES FOR 1882.

DR.

To resident taxes assessed .	\$311,226 84	
non-resident taxes assessed .	1,446 98	
	<u> </u>	\$312,673 82

CR.

By collections . . .	\$292,551 15	
abatements . . .	577 26	
discounts . . .	7,351 59	
balance uncollected . .	12,193 82	
	<u> </u>	\$312,673 82

CITY OFFICERS' SALARIES.

DR.

To appropriation . . .	\$12,000 00	
	<u> </u>	\$12,000 00

CR.

Paid H. B. Putnam, mayor . .	\$1,000 00	
N. P. Kidder, city clerk . .	900 00	
S. B. Putnam, city treasurer .	1,000 00	
S. B. Putnam	25 00	
George H. Allen, city engineer	1,000 00	
William E. Buck, superintend- ent of schools	1,500 00	
William R. Patten, city solic- itor	500 00	
J. A. Barker, city messenger	635 00	
J. A. Fracker, clerk of com- mon council	100 00	
George E. Morrill, collector of taxes	1,329 36	
D. H. Maxfield, moderator .	6 00	
James Dolan, Jr. "	7 50	

Paid George M. True, moderator .	\$6 00
James B. Straw, " .	6 00
T. W. Challis, " .	3 00
N. J. Whalen, ward clerk .	12 50
Chas. H. Butman, ward clerk	10 00
Waldo E. Gilmore, " .	10 00
Frank H. Redfield, " .	5 00
William McElroy, " .	10 00
George E. Glines, " .	5 00
L. C. Merrill, " .	5 00
A. H. Olzendam, " .	11 00
Hervey Stratton, selectman .	10 00
H. C. Paige, " .	5 00
J. B. McTiernan, " .	5 00
James McLaughlin, " .	5 00
John Prince, " .	10 00
John Bryson, " .	5 00
George W. Varnum, " .	10 00
Charles C. Tinkham, " .	10 00
Herman Rittner, " .	10 00
S. B. Putnam, " .	10 00
E. G. Woodman, " .	5 00
Samuel Clark, " .	5 00
James Lightbody, " .	5 00
Ralph Pearson, " .	10 00
J. B. McTiernan, " .	7 50
James McLaughlin, " .	7 50
J. Bryson, " .	7 50
S. R. Stearns, " .	10 00
R. E. Davis, " .	5 00
C. M. Edgerly, " .	5 00
Edwin N. Baker, " .	5 00
C. H. Uhlig, " .	10 00
C. S. Fisher, assessor . .	379 50

Paid D. O. Furnald, assessor .	\$302 50
Ira W. Moore, " . .	173 75
John Ryan, " . .	222 50
George W. Weeks, assessor .	237 50
Joseph H. Haynes, " .	295 00
Charles H. Brown, " .	150 00
H. W. Powell, " .	145 00
J. P. Moore, assistant assessor	70 00
E. C. Bryant, " .	40 00
Isaac Whittemore, " .	72 50
Reed P. Silver, " .	42 50
Callixte Lor, " .	5 00
Michael Gilbert, interpreter for assessors	10 00
T. F. Collins, interpreter for assessors	10 00
S. S. Perry, clerk for assessors	11 50
N. Nichols, clerk for assessors	225 00
H. H. Noyes, inspector of check-lists	15 75
David Farmer, inspector of check-lists	54 00
J. J. Flynn, inspector of check- lists	67 50
J. H. Haynes, inspector of check-lists	113 62
C. S. Fisher, inspector of check-lists	23 62
D. O. Furnald, inspector of check-lists	45 00
Isaac Whittemore, inspector of check-lists	46 13
C. H. Warren, inspector of check-lists	54 00

Paid M. J. Healy, supervisor of check-list	\$12 00
Wm. D. Ladd, supervisor of check-list	4 00
Wm. C. Hodgman, supervisor of check-list	4 00
J. Cavanaugh, supervisor of check-list	12 00
B. L. Hartshorn, supervisor of check-list	4 00
John Dowst, supervisor of check-list	4 00
Charles W. Quimby, super- visor of check-list	4 00
J. F. Pherson, supervisor of check-list	4 00
F. T. E. Richardson, super- visor of check-list	4 00
D. M. Goodwin, supervisor of check-list	6 00
L. S. Proctor, supervisor of check-list	6 00
C. C. Colby, supervisor of check-list	4 00
S. S. Piper, supervisor of check-list	5 00
J. C. Balch, supervisor of check-list	5 00
J. M. Collity, city physician .	50 00
C. G. B. Ryder, overseer of the poor	14 58
Wm. H. Maxwell, clerk of overseers of the poor . . .	25 00
A. D. Stark, health officer .	25 00

Paid L. H. Lamprey, health officer	\$50 00
P. A. Devine, health officer .	25 00
H. W. Longa, health officer .	25 00
H. B. Putnam, <i>ex-officio</i> school committee	10 00
W. J. Hoyt, <i>ex-officio</i> school committee	10 00
Charles F. Everett, school committee	10 00
M. P. Hall, school committee .	10 00
M. P. Hall, clerk of school committee	100 00
Douglas Mitchell, school com- mittee	10 00
B. B. Weeks, school com- mittee	10 00
Wm. A. Webster, school com- mittee	10 00
J. T. Fanning, school com- mittee	10 00
Walter M. Parker, school committee	10 00
D. F. O'Connor, school com- mittee	10 00
Ezra Huntington, school com- mittee	10 00
L. E. Phelps, school com- mittee	10 00
C. A. O'Connor, school com- mittee	10 00
A. C. Flanders, school com- mittee	10 00
F. T. E. Richardson, school committee	10 00

Paid Daniel Clark, school committee	\$3 33	
H. H. Huse, school committee	6 67	
Benjamin C. Dean, school committee	10 00	
G. L. Demarest, school committee	10 00	
George H. Colby, overseer of the poor	25 00	
James Sutcliffe, overseer of the poor	8 48	
Horace Gordon, overseer of the poor	25 00	
George F. Sheehan, overseer of the poor	25 00	
Robert Hall, overseer of the poor	25 00	
E. G. Woodman, overseer of the poor	25 00	
I. B. Farnum, overseer of the poor	25 00	
W. H. Maxwell, overseer of the poor	25 00	
W. H. Maxwell, clerk of overseers of the poor	25 00	
By balance on hand	39 21	
	<hr/>	\$12,000 00

FIREMEN'S PARADE.

		DR.
To appropriation	\$300 00	
balance overdrawn	56 00	
	<hr/>	\$356 00

		CR.
Paid George Fletcher, caterer . . .	\$205 00	
First Regiment Band . . .	80 00	
John B. Clarke, printing . . .	7 50	
Cavanaugh Bros., teams . . .	60 00	
T. W. Lane, postage, etc. . .	3 50	
	<u> </u>	\$356 00

DECORATION OF SOLDIERS' GRAVES.

		DR.
To appropriation	\$200 00	
	<u> </u>	\$200 00
		CR.
Paid Louis Bell Post No. 3, G. A. R. . . .	200 00	
	<u> </u>	\$200 00

WOMEN'S-AID-SOCIETY HOSPITAL.

		DR.
To reserved fund, am't transferred . . .	\$400 00	
	<u> </u>	\$400 00
		CR.
Paid Mrs. Aretas Blood, treasurer . . .	\$400 00	
	<u> </u>	\$400 00

HYDRANT SERVICE.

		DR.
To appropriation	\$20,000 00	
balance overdrawn	70 00	
	<u> </u>	\$20,070 00
		CR.
Paid Manchester Water-works . . .	\$20,070 00	
	<u> </u>	\$20,070 00

STARK-MONUMENT SQUARE.

		DR.
To balance from old account . .	\$200 00	
	<hr/>	\$200 00
		CR.
Paid James S. Bacheler & Co., re-		
pairing fence	\$5 00	
Wyman & Gray, painting . .	52 65	
for labor of men and teams . .	12 49	
By balance to new account . .	129 86	
	<hr/>	\$200 00

WATER-WORKS.

		DR.
To balance from old account . .	\$7,960 14	
water rents	67,630 13	
	<hr/>	\$75,590 27
		CR.
By interest, amount transferred .	\$38,000 00	
Paid Charles K. Walker, superin-		
tendent	1,567 47	
Arthur E. Stearns, clerk . .	1,000 00	
C. C. Cole, superintendent at		
pumping-station	658 31	
J. L. Kennedy, painting . .	82 52	
Hutchinson Bros., blacksmith-		
ing, etc.	276 97	
T. A. Lane, valves, plumbing,		
etc.	12 99	
John F. Ford, lathe	25 00	
Bunton & Wilbur, blacksmith-		
ing	8 80	

Paid C. H. Hodgman & Co., truck-	
ing	\$7 50
J. W. Kimball, wood, etc. .	77 75
D. J. Mahoney, lumber .	120 17
J. M. & D. A. Parker, lumber	26 40
J. Hodge, lumber	28 23
Head & Dowst, lumber .	1 89
Pettee & Whittle, cement .	49 25
Pettee & Adams, cement .	48 50
A. H. Lowell, stop-boxes, iron	
fittings, etc.	188 90
Temple & Farrington, station-	
ery	2 83
E. R. Coburn, stationery .	6 44
Thomas W. Lane, stationery .	2 60
J. B. Clarke, printing .	30 27
Union Publishing Co., printing	6 25
Manchester Locomotive Works,	
bolts, posts, etc. . . .	489 48
Bunton & Wilbur, blacksmith-	
ing	1 45
John Barnes, blacksmithing .	5 30
L. A. Dickey, blacksmithing .	39 66
B. L. & C. R. R., freight .	1,402 45
J. B. Varick, hardware .	180 52
Daniels & Co., hardware .	43 93
Brock & Driscoll, hardware .	11 00
Wyman & Gray, painting .	35 00
E. P. Johnson & Co., coal .	142 00
L. B. Bodwell & Co., coal .	42 98
Granite State Telephone Co. .	24 50
C. H. Wood, painting sign .	4 50
town of Auburn, taxes .	6 51
Joseph Goodwin, labor .	38 00

Paid C. M. Hubbard, trucking .	\$25 00
F. W. Elliott, boarding men .	15 75
A. M. Eastman, kerosene oil .	1 00
George Whitford, wood .	6 00
C. H. Robie, concreting .	20 89
Leonard Colby, boat .	60 00
H. N. Stone, valve rubbers, etc.	5 95
E. A. G. Holmes, lumber and labor	11 34
Cyrus Whittemore, Jr., mason work	14 55
C. M. Sprague	13 12
Wm. Shepherd	2 00
J. Stickney, rubber mitts, leather, etc.	5 94
P. C. Cheney Co., wiping waste	5 90
C. G. B. Ryder, damage from water	10 00
Pike & Heald, plumbing, etc. .	5 35
Allen N. Clapp, lead and salt	1 14
E. T. James, teams	20 50
Geo. C. Hoitt, binding book .	4 00
C. E. Clough, teaming	2 00
Geo. R. Vance & Co., setting up stove, etc.	1 90
J. H. & P. Cunningham, iron- work	18 00
Davis & Farnum M'fg Co., iron castings	12 99
James M. Webster, stone .	15 55
Fletcher & Co., meals	25 00
Gilman Clough	32 13
Mowry & Phillips, pig-lead .	561 62
Wm. Treadway, dating-stamp	13 50

Paid S. D. Wood & Co., valve chests	\$183 10
Leonard & Ellis, valvoline oil .	76 50
Stutts & Mansur, corp. stops, nipples, etc.	140 87
Gloucester Iron Co., iron pipe	8,946 49
Union Water Meter Co., wa- ter meters	1,278 90
Waite, Williams, & Co., oil .	37 13
Jarechi, Hayes, & Co., stop- cocks, etc.	188 90
Sumner & Goodwin, nipples, valves, etc.	325 72
R. Pattee & Co., hydrants .	495 00
Boston Machine Co., bell gates	58 85
Continental Water Meter Co., -repairing meters	8 75
H. J. Devitt, blacksmithing .	1 05
Ward & Hurley, locks, bands, etc.	56 75
Sewall & Day Cordage Co., jute packing	17 37
N. Danny, building fence .	54 00
Boston Lead Manufacturing Co., lead pipe	54 26
National Meter Co., meters .	140 00
Ludlow Valve Manufacturing Co., valves	2 12
labor of men and teams .	5,828 40
J. A. Weston, water commis- sioner	71 00
Alpheus Gay, water commis- sioner	33 00
E. H. Hobbs, water commis- sioner	18 00

Paid E. T. James water commis-		
sioner	\$24 00	
H. B. Putnam, water commis-		
sioner	18 00	
Wm. P. Newell, water com-		
missioner	24 00	
A. C. Wallace, water commis-		
sioner	21 00	
By balance to new account . . .	11,487 92	
	<hr/>	\$75,590 27

RESERVED FUND.

DR.

To appropriation	\$10,000 00	
rent of tenements	273 00	
show licenses	204 00	
aqueduct water	10 00	
rent of ward-room lot	12 00	
P. Pruman, rent of land	1 00	
Carl E. York, wire netting	6 00	
wooden watering-trough	3 00	
costs of non-resident taxes	22 00	
south city scales	25 00	
dog licenses	563 00	
interest on taxes, amount trans-		
ferred	316 16	
highway district No. 2, amount		
transferred	1,958 91	
land damage, am't transferred	683 17	
commons, amount transferred	192 15	
repairs of buildings, amount		
transferred	150 14	
fire-alarm telegraph, amount		
transferred	330 31	

To abatement of taxes, amount	
transferred	\$327 93
county tax, amount transferred	676 63
balance	605 21
	<hr/> \$16,359 61

CR.

By District No. 1	\$25 82
“ No. 3	383 10
“ No. 5	18 59
“ No. 6	90 17
“ No. 8	235 67
“ No. 9	104 84
“ No. 10	204 53
“ No. 11	96 45
“ No. 13	97 67
new highways	2,685 31
watering streets	329 77
lighting streets	435 30
bridges	662 03
Pine Grove Cemetery	880 93
fire department	484 50
printing and stationery	64 89
macadamizing	1,005 31
grading for concrete	4,703 14
discount on taxes	851 59
furniture and supplies	500 00
repairing school-houses	2,500 00
Women's-Aid-Society hospital	400 00
	<hr/> \$16,359 61

ANNEX TO CITY LIBRARY.

DR.

To balance from old account . . .	\$4,644 83	
appropriation	1,500 00	
	<hr/>	\$6,144 83

CR.

Paid W. Ireland, contractor . . .	\$3,956 25	
Head & Dowst, making book-		
cases, etc.	942 77	
Head & Dowst, step-ladders . .	40 00	
John Gannon, Jr., painting . .	16 89	
W. S. Henry & Son, frescoing . .	387 00	
J. J. Abbott, painting	133 73	
T. A. Lane, brackets, burners,		
etc.	239 72	
Pike & Heald, plumbing	45 57	
B. F. Fogg & Co., steam pip-		
ing, etc.	314 28	
B. W. Robinson & Co., mason		
work	2 00	
A. H. Lowell, iron-work	45 00	
J. O. Hunt, labor,	3 38	
Manchester Mills, hair felting .	7 20	
By balance on hand	11 04	
	<hr/>	\$6,144 83

BATTERY BUILDING AND WARD-ROOM NO. 4.

DR.

To appropriation	\$8,000 00	
	<hr/>	\$8,000 00

CR.

Paid Alpheus Gay, contractor . . .	\$5,000 00	
J. T. Fanning, architect	150 00	

Paid Union Publishing Company,		
printing	\$20 25	
Lamson & Marden, cut stone-		
work	1,446 00	
James S. Bachelor	79 40	
for labor of men and teams,		
excavating	309 72	
By balance to new account . .	994 63	
	<u> </u>	\$8,000 00

INTEREST ON LAND.

		DR.
To appropriation	3,000 00	
	<u> </u>	\$3,000 00
		CR.
By balance to new account . .	\$3,000 00	
	<u> </u>	\$3,000 00

SCAVENGER TEAMS.

		DR.
To appropriation	\$2,000 00	
balance overdrawn	1,842 99	
	<u> </u>	\$3,842 99
		CR.
Paid James Kearns, teamster .	\$469 50	
A. J. Morse, teamster . .	153 00	
Dennis Clifford, teamster .	256 50	
Charles Denyon, teamster .	45 00	
City teams	1,038 00	
George Seaward, teamster .	45 00	
for labor of men	1,835 99	
	<u> </u>	\$3,842 99

VALUATION, TAXES, ETC.

Year.	Valuation.	Taxes.	No. Polls.	Poll-Tax.	Val. of Poll.
1839 . .	\$604,963	\$3,029 84	427	\$2 14	\$300
1840 . .	946,200	3,986 56	772	2 20	300
1841 . .	1,229,054	9,563 74	892	3 49	300
1842 . .	1,430,524	12,952 44	1,053	2 76	300
1843 . .	1,598,826	13,764 32	1,053	2 60	300
1844 . .	1,873,286	13,584 72	1,053	2 25	300
1845 . .	2,544,780	19,246 27	1,561	2 30	300
1846 . .	3,187,726	22,005 95	1,808	2 10	300
1847 . .	4,488,550	24,953 54	2,056	1 68	300
1848 . .	4,664,957	39,712 53	2,688	2 58	300
1849 . .	5,500,049	44,979 92	2,518	2 47	300
1850 . .	5,832,080	48,974 23	2,820	2 37	300
1851 . .	6,906,462	51,798 47	2,910	2 25	300
1852 . .	6,795,682	54,379 45	2,745	1 92	240
1853 . .	6,995,528	61,545 81	2,907	1 82	240
1854 . .	8,237,617	62,022 44	2,814	1 80	240
1855 . .	8,833,248	71,952 09	3,725	1 94	240
1856 . .	9,244,062	114,214 08	3,760	2 96	240
1857 . .	9,983,862	84,862 98	3,695	2 04	240
1858 . .	10,259,080	78,210 85	3,695	1 83	240
1859 . .	9,853,310	81,368 01	3,495	1 92	240
1860 . .	9,644,937	86,804 87	3,651	2 16	240
1861 . .	9,343,254	99,104 96	3,974	2 40	240
1862 . .	8,891,250	84,827 45	3,071	2 21	240
1863 . .	9,597,786	96,233 86	2,995	2 40	240
1864 . .	9,517,512	142,815 98	3,168	3 50	240
1865 . .	9,478,368	209,696 20	3,176	5 18	240
1866 . .	10,050,020	245,567 19	4,114	5 50	240
1867 . .	10,101,556	207,457 39	4,170	4 61	240
1868 . .	9,929,072	208,783 07	4,583	2 85	150
1869 . .	10,205,303	254,022 43	4,709	3 72	150
1870 . .	10,710,252	234,047 63	4,959	3 27	150
1871 . .	11,365,162	236,639 74	5,404	3 12	150
1872 . .	11,542,632	259,196 67	5,911	2 24	100
1873 . .	12,001,200	300,768 00	6,212	2 50	100
1874 . .	12,716,892	312,835 95	6,219	2 46	100
1875 . .	14,195,102	315,131 29	6,227	2 22	100
1876 . .	15,309,348	248,900 93	6,295	1 62	100
1877 . .	15,605,918	246,573 46	6,341	1 58	100
1878 . .	15,912,234	276,873 32	6,477	1 74	100
1879 . .	17,482,132	264,406 73	6,633	1 50	100
1880 . .	17,735,990	263,812 17	7,219	1 48	100
1881 . .	17,943,308	316,462 26	7,574	1 76	100
1882 . .	19,175,408	312,673 82	7,831	1 62	100

CITY DEBT.

Date of Notes.	To Whom Payable.	When Payable.	Principal.
July 1, 1876	Sewer Bonds,	July 1, 1883	\$8,000 00
Aug. 1, 1869	City Bonds,	Aug. 1, 1883	5,000 00
Aug. 1, 1869	" "	Aug. 1, 1884	1,500 00
April 1, 1864	" "	April 1, 1884	70,000 00
April 1, 1865	" "	April 1, 1885	10,000 00
July 1, 1876	Sewer Bonds,	July 1, 1885	8,000 00
Aug. 1, 1869	City Bonds,	Aug. 1, 1885	1,500 00
Aug. 1, 1869	" "	Aug. 1, 1886	5,000 00
Aug. 1, 1869	" "	Aug. 1, 1887	3,500 00
Jan. 1, 1872	Water Bonds,	Jan. 1, 1887	100,000 00
Jan. 1, 1863	City Bonds,	Jan. 1, 1888	35,000 00
July 1, 1874	Water Bonds,	July 1, 1890	100,000 00
Jan. 1, 1872	" "	Jan. 1, 1892	100,000 00
Oct. 31, 1863	City Bonds,	Nov. 1, 1893	70,000 00
July 1, 1864	" "	July 1, 1894	50,000 00
July 1, 1874	Water Bonds.	July 1, 1895	100,000 00
Jan. 1, 1872	" "	Jan. 1, 1897	100,000 00
Jan. 1, 1872	" "	Jan. 1, 1902	100,000 00
July 1, 1881	Bridge Bonds,	July 1, 1911	60,000 00

FUNDED DEBT.

Amount of funded debt, Jan. 1,	
1882	\$953,100 00
Paid during the year	25,600 00
	<hr/>
Amount of funded debt, Jan. 1,	
1883	\$927,500 00
Interest due, estimated	20,000 00
Bills outstanding	27,151 43
	<hr/>
	\$47,151 43
	<hr/>
Total indebtedness, Jan. 1, 1883 .	\$974,651 43
Cash in treasury, Jan. 1, 1883 .	\$47,337 37
Notes due the city	220 78
Interest on the same	65 48
	<hr/>
	\$47,623 63
	<hr/>
Net indebtedness, Jan. 1, 1883 .	\$927,027 80
Net indebtedness, Jan. 1, 1882 .	965,550 82
	<hr/>
Decrease of net indebtedness during the year	\$38,523 02

CITY PROPERTY.

City-Library building	\$30,000 00
Permanent inclosure of commons . . .	19,200 00
City Hall and lot	60,000 00
City Farm and permanent improvements .	26,000 00
Stock, tools, furniture, and provisions at city farm	6,517 19
Engines, hose, and apparatus	52,566 50
Engine-house, stable, and land, Vine street .	43,000 00
Hose-house and lot, Maple street . . .	2,500 00
Hose-house and lot, Park street	6,000 00
Hose-house and lot, Nashua street . . .	500 00
Reservoirs	10,000 00
Houses, tombs, and new cemetery . . .	5,000 00
Court-house and lot	51,000 00
Common sewers	200,000 00
Safes, furniture, and fixtures at city hall .	3,000 00
Street lanterns, posts, and pipes . . .	5,300 00
Water-works	784,068 52
Horses, carts, plows, and tools for streets .	5,000 00
Ward-room and lot, Manchester street . .	10,000 00
Ward-room and lot, Park street	600 00
Engine-house and lot, ward eight	2,300 00
Water-pipe, wagons, and apparatus for water- ing streets	2,500 00
Stock in Suncook Valley Railroad . . .	50,000 00
Lot, Lowell street	1,500 00
Gravel lot, Belmont street	1,200 00
Gravel lot, Sagamore street	800 00
Gravel lot, ward eight (one-half acre) . .	50 00
Gravel lot, Bakersville (one acre) . . .	100 00
Gravel lot, Bakersville	600 00
Gravel lot, District No. 8	150 00
Fire-alarm telegraph, bell-tower, and bell .	20,000 00
Valley Cemetery	6,000 00

\$1,405,452 21

SCHOOL PROPERTY.

Blodget-street school-house and lot	. \$3,000 00	
Movable furniture, maps, charts, etc.	150 00	\$3,150 00
Bridge-street house and lot . .		500 00
Old High School-House and lot .	6,500 00	
Movable furniture, maps, etc. .	200 00	6,700 00
New High School-House . . .	45,000 00	
Movable furniture, maps, charts, books, and apparatus . . .	2,000 00	47,000 00
Wilson-Hill house and lot . . .	3,300 00	
Movable furniture, maps, etc. .	125 00	3,425 00
Merrimack-street house and lot .	15,000 00	
Movable furniture, maps, etc. .	350 00	15,350 00
Manchester-street house and lot .	8,000 00	
Movable furniture, maps, etc. .	300 00	8,300 00
Park-street house and lot . . .	8,000 00	
Movable furniture, maps, etc. .	400 00	8,400 00
Franklin-street house and lot . .	18,000 00	
Movable furniture, maps, etc. .	400 00	18,400 00
Spring-street house and lot . . .	14,000 00	
Movable furniture, maps, etc. .	400 00	14,400 00
Stark house and lot	3,000 00	
Movable furniture, maps, etc. .	200 00	3,200 00
Bakersville house and lot . . .	3,500 00	
Movable furniture, maps, etc. .	75 00	3,575 00
Goffe's-Falls house and lot . . .	3,600 00	
Movable furniture, maps, etc. .	100 00	3,700 00
House and lot near Harvey's . .	2,500 00	
Movable furniture, maps, etc. .	50 00	2,550 00
House and lot near Clough's mill .	600 00	
Movable furniture, maps, etc. .	50 00	650 00
House and lot corner Beech and Spruce streets		6,000 00

Hallsville house and lot . . .	. \$3,500 00	
Movable furniture, maps, etc. .	. 75 00	\$3,575 00
Massabesic house and lot . . .	. 1,400 00	
Movable furniture, maps, etc. .	. 40 00	1,440 00
Mosquito-Pond house and lot . .	. 1,000 00	
Movable furniture, maps, etc. .	. 50 00	1,050 00
Center-street house and lot . . .	. 5,000 00	
Movable furniture, maps, etc. .	. 125 00	5,125 00
Ash-street house and lot . . .	. 58,000 00	
Movable furniture, maps, etc. .	. 400 00	58,400 00
Lincoln-street house and lot . .	. 50,000 00	
Movable furniture, maps, etc. .	. 400 00	50,400 00
South house and lot, 'Squog . . .	. 2,800 00	
Movable furniture, maps, etc. .	. 60 00	2,860 00
Amoskeag house and lot . . .	. 3,700 00	
Movable furniture, maps, etc. .	. 125 00	3,825 00
Main-street house and lot . . .	. 17,000 00	
Movable furniture, maps, etc. .	. 100 00	17,100 00
Webster-street house and lot . .	. .	21,000 00
<hr/>		
Amount of school property . . .		\$310,075 00
Amount of city property . . .		1,405,452 21
<hr/>		
Total property		\$1,715,527 21

APPROPRIATIONS FOR 1883.

Interest	\$20,000 00
Paupers off the farm	3,500 00
City farm	2,500 00
City teams	3,000 00
Highway district No. 1	300 00
“ “ “ 2	10,000 00
“ “ “ 3	600 00
“ “ “ 4	400 00
“ “ “ 5	400 00
“ “ “ 6	400 00
“ “ “ 7	700 00
“ “ “ 8	650 00
“ “ “ 9	500 00
“ “ “ 10	1,300 00
“ “ “ 11	700 00
“ “ “ 12	250 00
“ “ “ 13	200 00
New highways	2,500 00
Land damage	1,000 00
Watering streets	2,000 00
Lighting streets	7,000 00
Paving streets	2,000 00
Bridges	2,500 00
Sewers and Drains	20,000 00
Commons	1,500 00
Pine Grove Cemetery	5,000 00
Valley Cemetery	2,000 00
Truant officer	700 00
Fire department	18,000 00
Police department	13,000 00
City hall and offices	2,000 00
Printing and stationery	1,500 00

Repairs of buildings	\$1,800 00
City library	3,000 00
Fire-alarm telegraph	1,000 00
Militia	800 00
Decoration of soldiers' graves	200 00
Abatement of taxes	2,500 00
Discount on taxes	7,000 00
Incidental expenses	35,000 00
State tax	41,060 00
County tax	32,000 00
Schools	54,200 00
Land	10,000 00
Interest on land	3,000 00
Bakersville school-house	5,000 00
Firemen's parade	350 00
City officers' salaries	12,000 00
Grading for concrete	3,000 00
Reserved fund	10,000 00
Macadamizing streets	2,500 00
Hydrant service	20,000 00
Payment of funded debt	13,000 00
Battery building	2,000 00
Scavenger teams	3,000 00
Total	<hr/> \$387,510 00

INDEX.

Abatement of Taxes.....	317
Account of City Treasurer.....	228
Accounts of Appropriations.....	235
Alarm-Boxes and Keys.....	179
Amoskeag S. F. E. Company No. 1.....	190, 298
Apparatus, Fire.....	186
Appropriations for 1883.....	340
Attendance at School.....	128
Battery Building and Ward-Room No. 4.....	332
Books and Stationery	270
Bridges.....	264
Care of Rooms.....	273
Cemeteries, Report of Committee on.....	217
City Government, 1882.....	3
Civil Engineer, Report of.....	75
Debt.....	335
Farm.....	244
Hall	310
Library.....	315
Library Annex	332
Physician, Report of.....	109
Property.....	337
Solicitor, Report of.....	45
Teams.....	247
Treasurer's Account.....	228
Chief Engineer, Report of.....	169
Commons	264
County Tax.....	318
Contingent Expenses.....	271

Discount on Taxes.....	317
Decoration of Soldiers' Graves.....	325
Debt, Funded	336
Donations to City Library.....	65
Engineers' Department.....	302
E. W. Harrington Hose Company No. 3.....	193, 301
Excelsior Hook and Ladder Company No. 1.....	172, 302
Evening Schools.....	274
Farm, City.....	244
Fire-Alarm Telegraph ..	194, 305
Boxes and Keys, Location of.....	179
Fire Apparatus.....	186
Department.....	298
Department, Rules and Regulations of.....	184
Firemen's Parade.	324
Fires, 1882.	176
Fuel.....	268
Furniture and Supplies.....	268
Government, City, 1882.....	3
Grading for Concrete	261
Highway District No. 1.....	250
No. 2.....	250
No. 3.....	251
No. 4.....	252
No. 5.....	252
No. 6.....	253
No. 7.....	253
No. 8.....	254
No. 9.....	254
No. 10.....	254
No. 11.....	255
No. 12.....	256
No. 13	256
Highways, New.....	257
Awards for Lands taken for.....	257
Hydrant Service.....	325
Hydrants, Location of.....	195

Incidental Expenses.....	281
Instructions to Key-Holders.....	182
Interest.....	236
Interest on Taxes.	236
Land Damage Awards.....	257
Library, City.....	315
Donations to.....	65
Librarian's Report.....	61
Treasurer's Report.....	56
Trustees' Report.....	51
List of Teachers and Janitors.....	161
Loan, Temporary.	235
Macadamizing Streets.....	260
Massabesic Hose Company No. 2....	193, 300
Mayor Putnam's Inaugural Address.....	iii
Militia.....	316
Miscellaneous Expenses of Fire Department.....	302
Names and Residences of Members of Fire Department....	190
New School-house on Webster street.....	279
at Bakersville.....	281
N. S. Bean Fire Engine Company No. 4.....	191, 299
Officers, City.....	3
Outstanding Taxes.....	318
Overseers of Poor, Report of.....	207
Paupers off the City Farm	236
Paving Streets.....	259
Payment of Funded Debt.....	317
Pennacook Hose Company No. 1.....	192, 300
Pine Grove Cemetery	220, 297
Police Department.....	306
Printing and Advertising.....	270
Stationery.....	313
Property, City.	337
School.....	338
Repairs of School-houses.....	266
Buildings.....	314

Report of Chief Engineer.....	169
City Civil Engineer.....	75
City Physician.....	109
City Solicitor.....	45
Committee on Cemeteries.....	217
Committee on City Farm.....	213
Committee on Finance..	232
Librarian of City Library.....	61
Overseers of the Poor.....	207
School Committee.....	119
Superintendent of Public Instruction.....	138
Superintendent of Water-Works.....	17
Treasurer of City Library.....	56
Trustees of City Library.....	51
Trustees of Cemetery Funds.....	225
Water Commissioners.....	15
Reserved Fund.....	330
Salaries of Officers.....	319
Teachers.....	275
Scavenger Teams.....	333
School Department.....	115
School Property.....	338
Schools, Evening	274
Sewers and Drains	262
Stark-Monument Square.....	326
State Tax... ..	318
Streets, Lighting	259
Macadamizing.....	260
Paving.....	259
Watering.....	258
Tax, County.....	318
Taxes, Abatement of.....	317
Discount on.....	317
For 1882.....	319
Outstanding.....	318
Teachers, Salaries of.....	275
Telegraph, Fire-Alarm.....	172, 305
Temporary Loan.....	235

Truant Officer.....	281
Tuition.....	278
Valuation, Taxes, etc.....	334
Valley Cemetery.....	218, 296
Water Board for 1883.....	42
Water Commissioners, Report of.....	15
Water-Works.....	326
Watering Streets.....	258
Women's Aid and Relief Society Hospital.....	325



